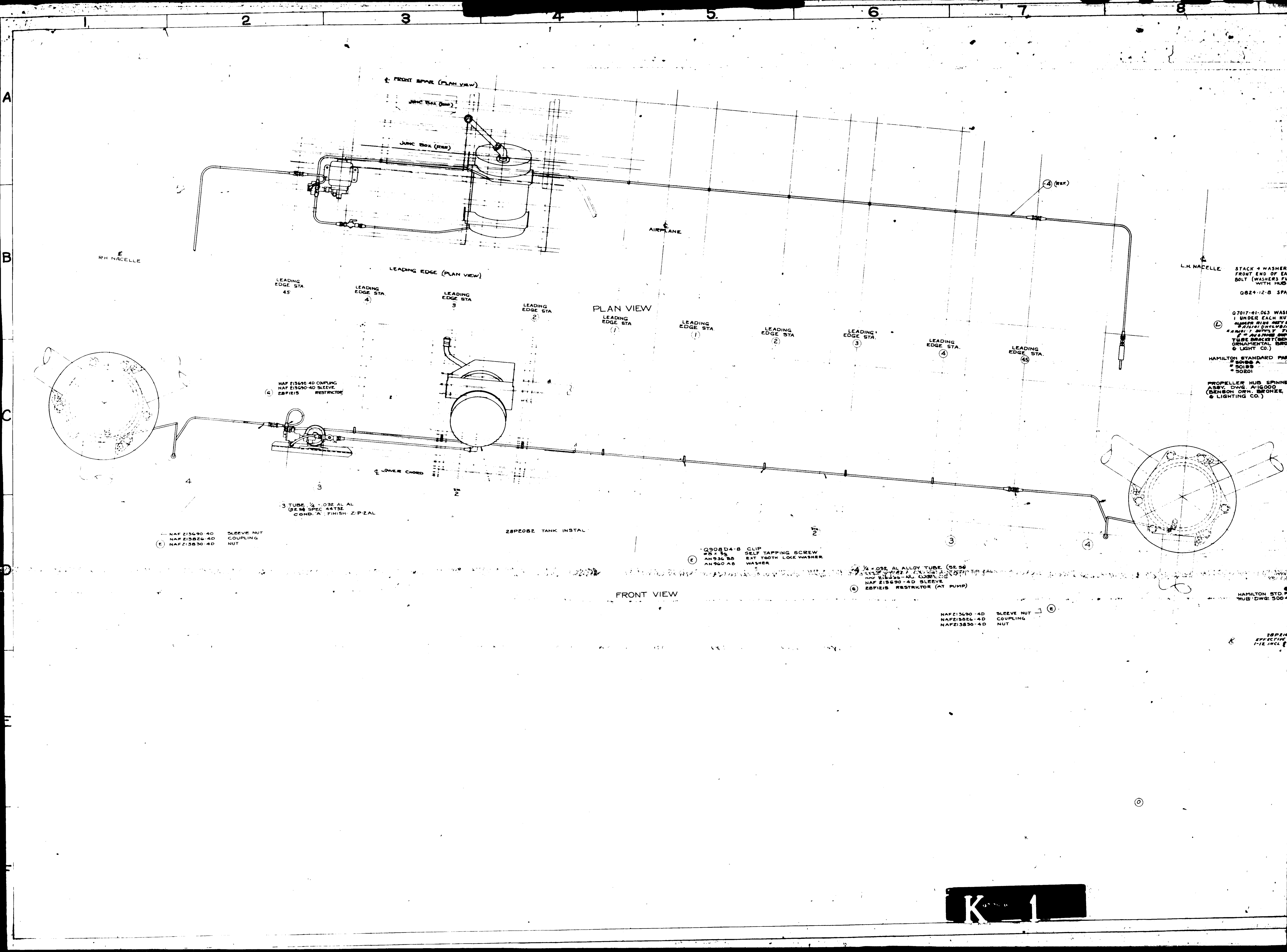
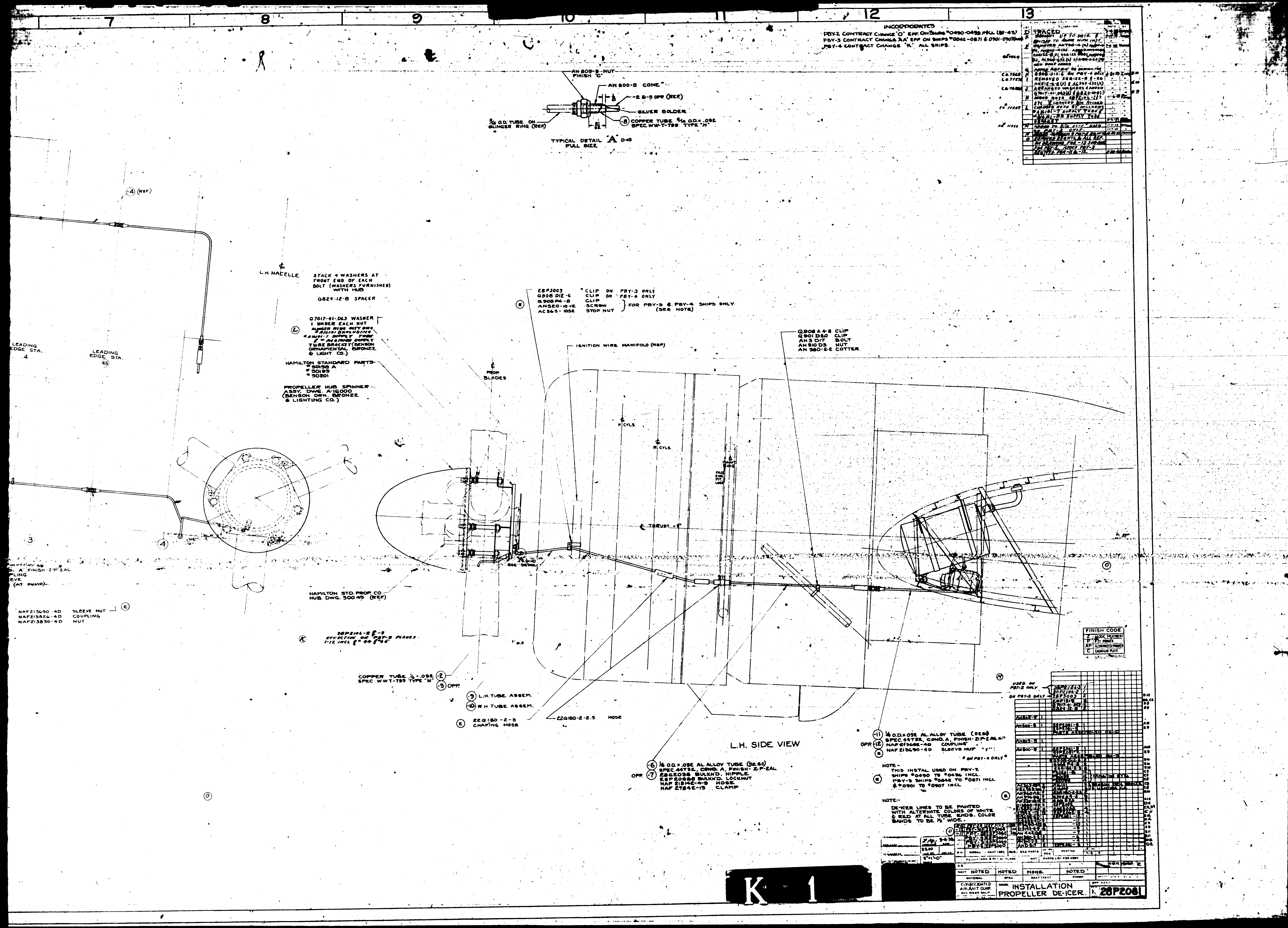
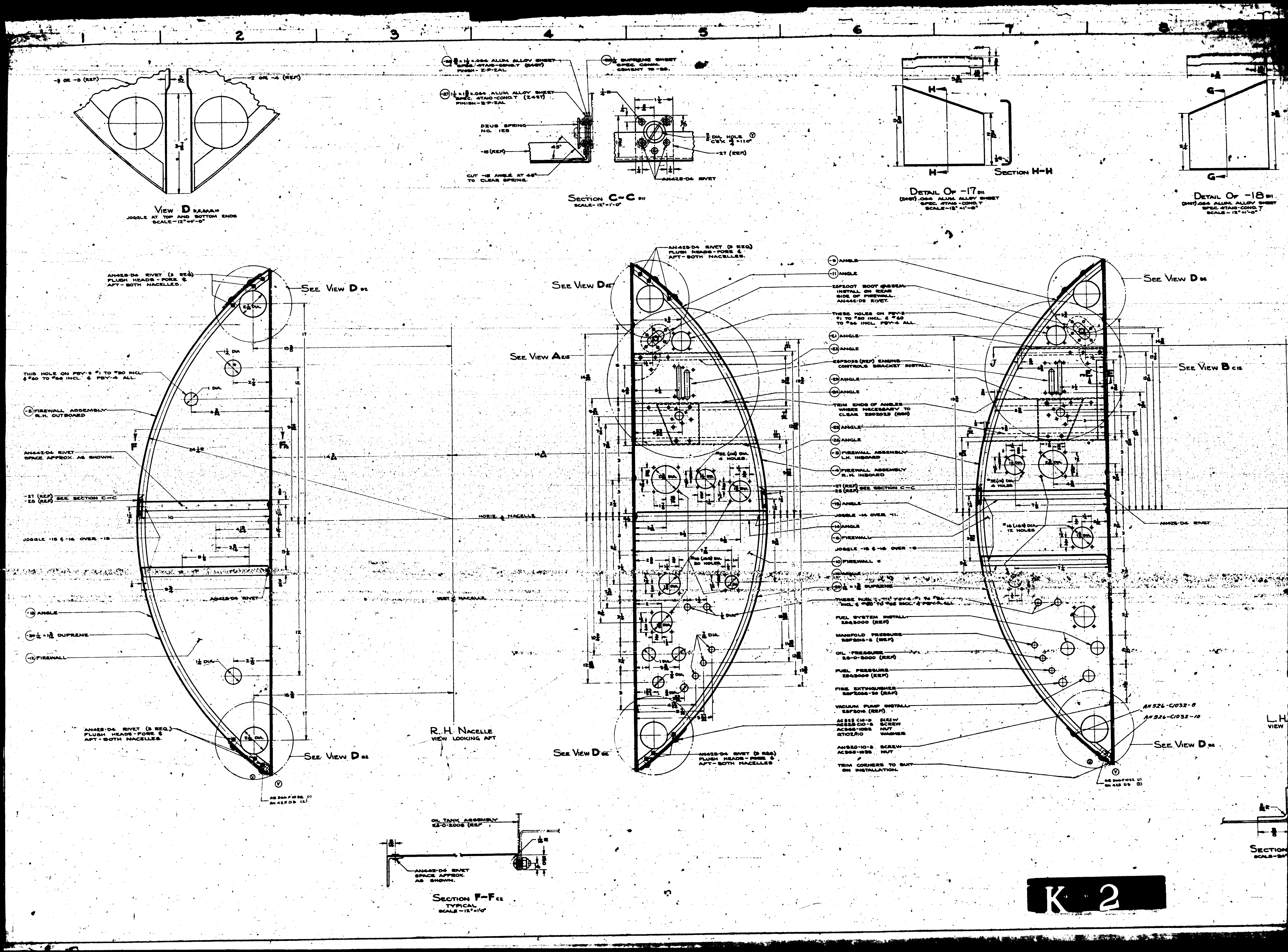


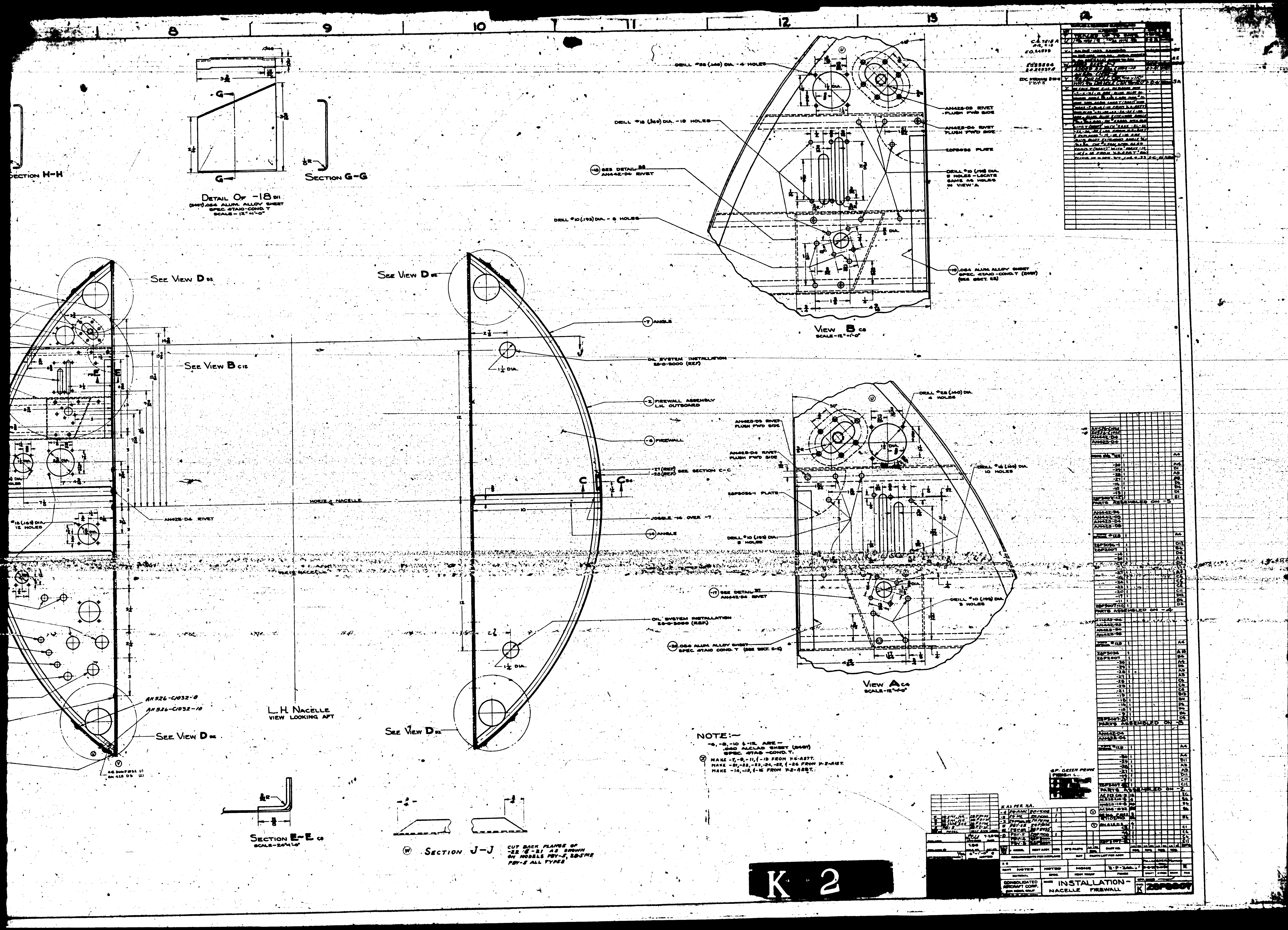
FRONT SPAR (PLAN VIEW)
JUNC BOX (REF)
RH NACELLE
AIRPLANE
L.H. NACELLE
LEADING EDGE (PLAN VIEW)
PLAN VIEW
LEADING EDGE STA
FRONT VIEW
LOWER CHORD
28P2082 TANK INSTAL
3 TUBE 1/4 × .032 AL AL (52S) SPEC 44T32 COND. A FINISH Z-P-ZAL
NAF 213690-4D SLEEVE NUT
NAF 213826-4D COUPLING
NAF 213830-4D NUT
NAF 213692-4D COUPLING
NAF 213690-4D SLEEVE
28F1215 RESTRICTOR
Q908D4-8 CLIP
#8 × 3/8 SELF TAPPING SCREW
AN936 B8 EXT TOOTH LOCK WASHER
AN960 A8 WASHER
4 1/4 × .032 AL ALLOY TUBE (52S)
NAF 213690-4D SLEEVE
28F1215 RESTRIKTOR (AT PUMP)
NAFZ13690-4D SLEEVE NUT
NAFZ13826-4D COUPLING
NAFZ13830-4D NUT
HAMILTON STANDARD PART
50198 A
50199
50201
PROPELLER HUB SPINNER ASSY. DWG. A-1G000 (BENSON ORN. BRONZE & LIGHTING CO.)
HAMILTON STD. HUB DWG. 500
K 1



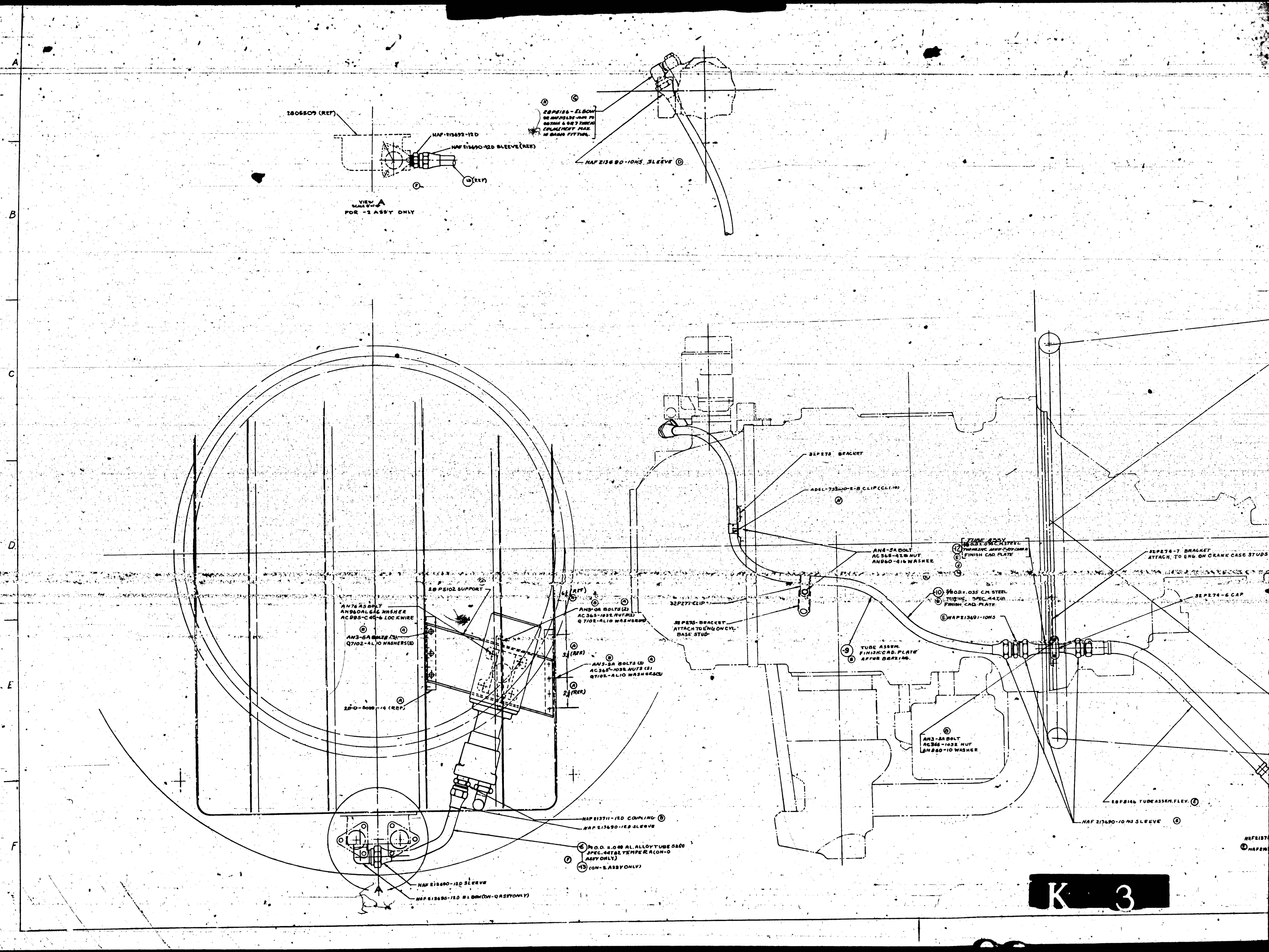
7
8
9
10
11
12
13
INCORPORATES
PBY-2 CONTRACT CHANGE "O" EFF. ON SHIPS #0490-0496 INCL.
PBY-3 CONTRACT CHANGE "AA" EFF ON SHIPS #0842-0871 & 0901-0907
PBY-4 CONTRACT CHANGE "K" ALL SHIPS.
TRACED
AN 805-5 NUT FINISH "C"
AN 800-5 CONE
-2 & -5 OPP (REF)
SILVER SOLDER
5/8 O.D. TUBE ON SLINGER RING (REF)
-8 COPPER TUBE 5/16 O.D. x .032 SPEC. WW-T-799 TYPE "N"
TYPICAL DETAIL "A" D-10 FULL SIZE
-4 (REF)
L.H. NACELLE
STACK 4 WASHERS AT FRONT END OF EACH BOLT (WASHERS FURNISHED WITH HUB
Q824-12-8 SPACER
Q7017-41-063 WASHER 1 UNDER EACH NUT
TUBE BRACKET (BENSON ORNAMENTAL BRONZE & LIGHT CO.)
HAMILTON STANDARD PARTS #50196 A #50199 #50201
PROPELLER HUB SPINNER ASSY. DWG. A-16000 (BENSON ORN. BRONZE & LIGHTING CO.)
LEADING EDGE STA. 4
LEADING EDGE STA. 45
28P3003 CLIP ON PBY-3 ONLY
Q808 D12-6 CLIP ON PBY-4 ONLY
Q908 P4-8 CLIP
AN520-10-12 SCREW
AC365-1032 STOP NUT
FOR PBY-3 & PBY-4 SHIPS ONLY (SEE NOTE)
IGNITION WIRE MANIFOLD (REF)
PROP BLADES
Q908 A 4-8 CLIP
Q901 D20 CLIP
AN 3 D17 BOLT
AN 310 D3 NUT
AN 380-2-2 COTTER
THRUST
HAMILTON STD. PROP. CO. HUB DWG. 50049 (REF)
NAF213690-4D SLEEVE NUT
NAF213826-4D COUPLING
NAF213830-4D NUT
COPPER TUBE 1/4 x .032 SPEC WWT-799 TYPE "N"
-2
-5 OPP.
-9 L.H. TUBE ASSEM.
-10 R.H. TUBE ASSEM.
22Q180-2-3 CHAFING HOSE
22Q180-2-2.5 HOSE
L.H. SIDE VIEW
-6 1/4 O.D. x .032 AL. ALLOY TUBE (52S0) SPEC. 44T32, COND. A, FINISH-Z-P-ZAL
OPP. -7 28Q2038 BULKHD. NIPPLE
28P2088 BULKHD. LOCKNUT
NAF 213142-4-9 HOSE
NAF 27842-13 CLAMP
-11 1/4 O.D. x .032 AL. ALLOY TUBE (52S0) SPEC. 44T32, COND. A, FINISH-Z-P-ZAL&P
OPP. -12 NAF213826-4D COUPLING
NAF 213690-4D SLEEVE NUT
NOTE - THIS INSTAL USED ON PBY-2 SHIPS #0490 TO #0496 INCL. PBY-3 SHIPS #0842 TO #0871 INCL. & #0901 TO #0907 INCL.
NOTE:- DE-ICER LINES TO BE PAINTED WITH ALTERNATE COLORS OF WHITE & RED AT ALL TUBE ENDS. COLOR BANDS TO BE 1/2" WIDE.
FINISH CODE
USED ON PBY-2 ONLY
ON PBY-3 ONLY
NOTED
NOTED
NONE
NOTED
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.
INSTALLATION PROPELLER DE-ICER.
28P2081
K 1



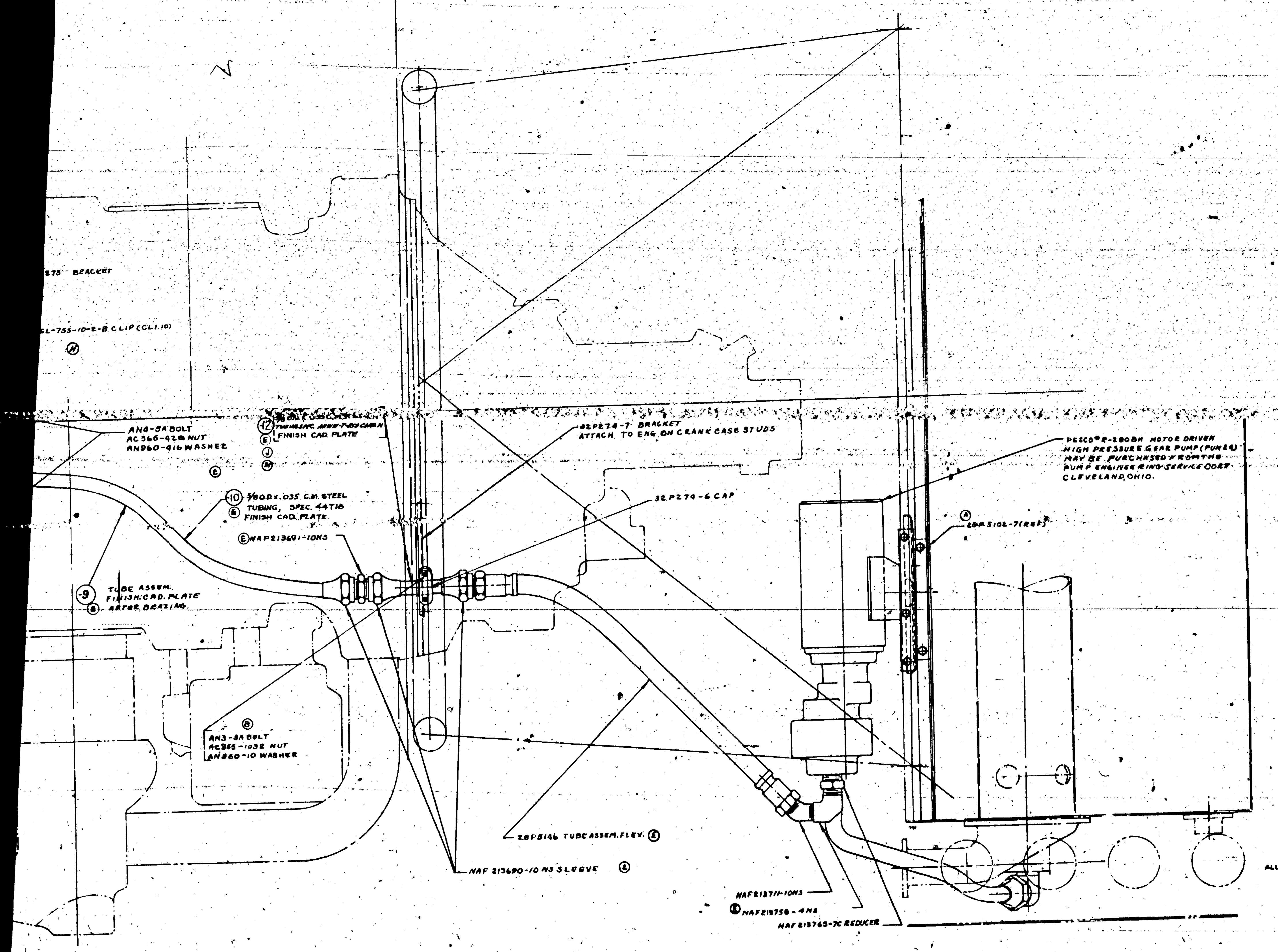
View D
Section C-C
Section H-H
Detail Of -17
Detail Of -18
See View D
See View A
See View B
R.H. Nacelle
View looking aft
Section F-F
Typical
K 2



Section H-H
Detail Of -18
Section G-G
See View D
See View B
L.H. Nacelle
View Looking Aft
View B
View A
Section E-E
Section J-J
NOTE:-
INSTALLATION - NACELLE FIREWALL
CONSOLIDATED AIRCRAFT CORP.
K 2



2805509 (REF)
NAF 213692-12D
NAF 213690-12D SLEEVE (REF)
VIEW A
FOR -2 ASS'Y ONLY
28P5186 - ELBOW
NAF 213690-10NS SLEEVE
32P275 BRACKET
ADEL-733-10-E-8 CLIP
AN4-5A BOLT
AC365-428 NUT
AN960-416 WASHER
32P274-7 BRACKET
ATTACH. TO ENG. ON CRANK CASE STUDS
32P274-6 CAP
28P5102 SUPPORT
AN76A5 BOLT
AN960AL616 WASHER
AC995-C40-6 LOCK WIRE
AN3-5A BOLTS
AC365-1032 NUTS
Q7102-AL10 WASHERS
32P277 CLIP
32P275 - BRACKET
ATTACH TO ENG ON CYL. BASE STUD
TUBE ASSEM.
FINISH: CAD. PLATE AFTER BRAZING
FINISH CAD. PLATE
NAF 213691-10NS
AN3-5A BOLT
AC365-1032 NUT
AN960-10 WASHER
28P5146 TUBE ASSEM. FLEX.
NAF 213690-10NS SLEEVE
NAF 213711-12D COUPLING
NAF 213690-12D SLEEVE
(ON -2 ASSY ONLY)
NAF 213690-12D SLEEVE
NAF 213695-12D ELBOW (ON -2 ASSY ONLY)
K 3



NOTE:-

1. PAINT 1/2 WIDE BRIGHT YELLOW STRIP BOTH ENDS OF -6, -13 & 9 USED ON PBY-5 SHIP BU#2289-2346 INC, BU#2356-2421 INC, BU#2428 ON
2. TUBING DASH NUMBERS ARE COMPLETE ASSY'S. CONSISTING OF TUBES, NUTS & SLEEVES. USE TWO OF EACH FOR FOLLOWING TUBES.

DASH NO.	TUBE SIZE	[illegible]	[illegible]	STEEL [illegible]	TUBE SLEEVE
-12	[illegible]				

* DENOTES GOVERNMENT FURNISHED PART (PBY-5, PBY-5A.

-0	28-5AMN	28P5100	2
-2	28-5AMC		
-0	28-5MN		
-0	28-5ME		
-2	28-5MC		
-0	28-5MA		
-0	PBY-5B		
-0	PBY-5A		
-0	PBY-5	28P5100	2

ALL BUT 15

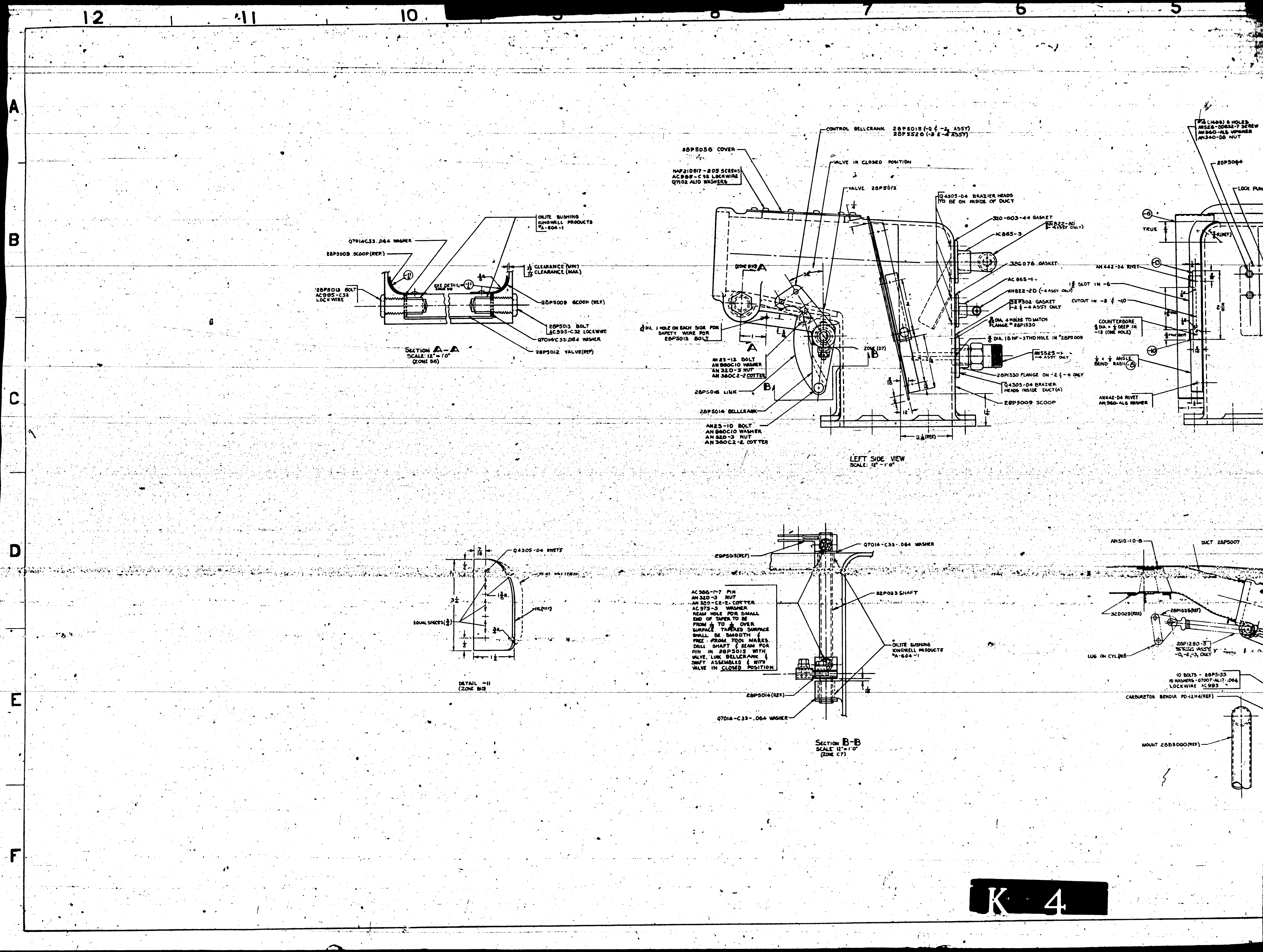
SCALE 6" = 1'0"

PARTS LIST FOR ASSY.

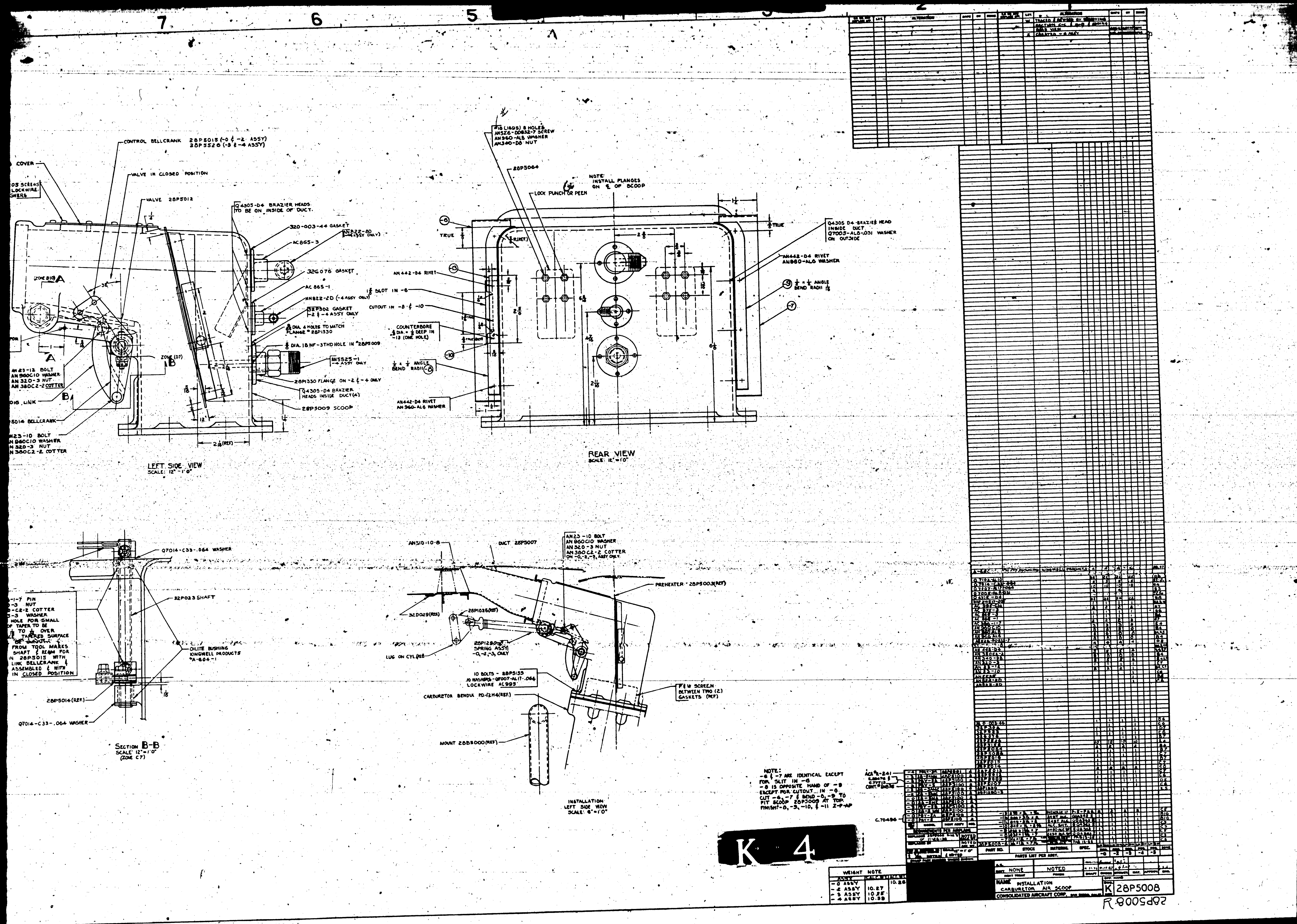
INSTALL FULL FEATHER PROP CONTROL

K 28P5000

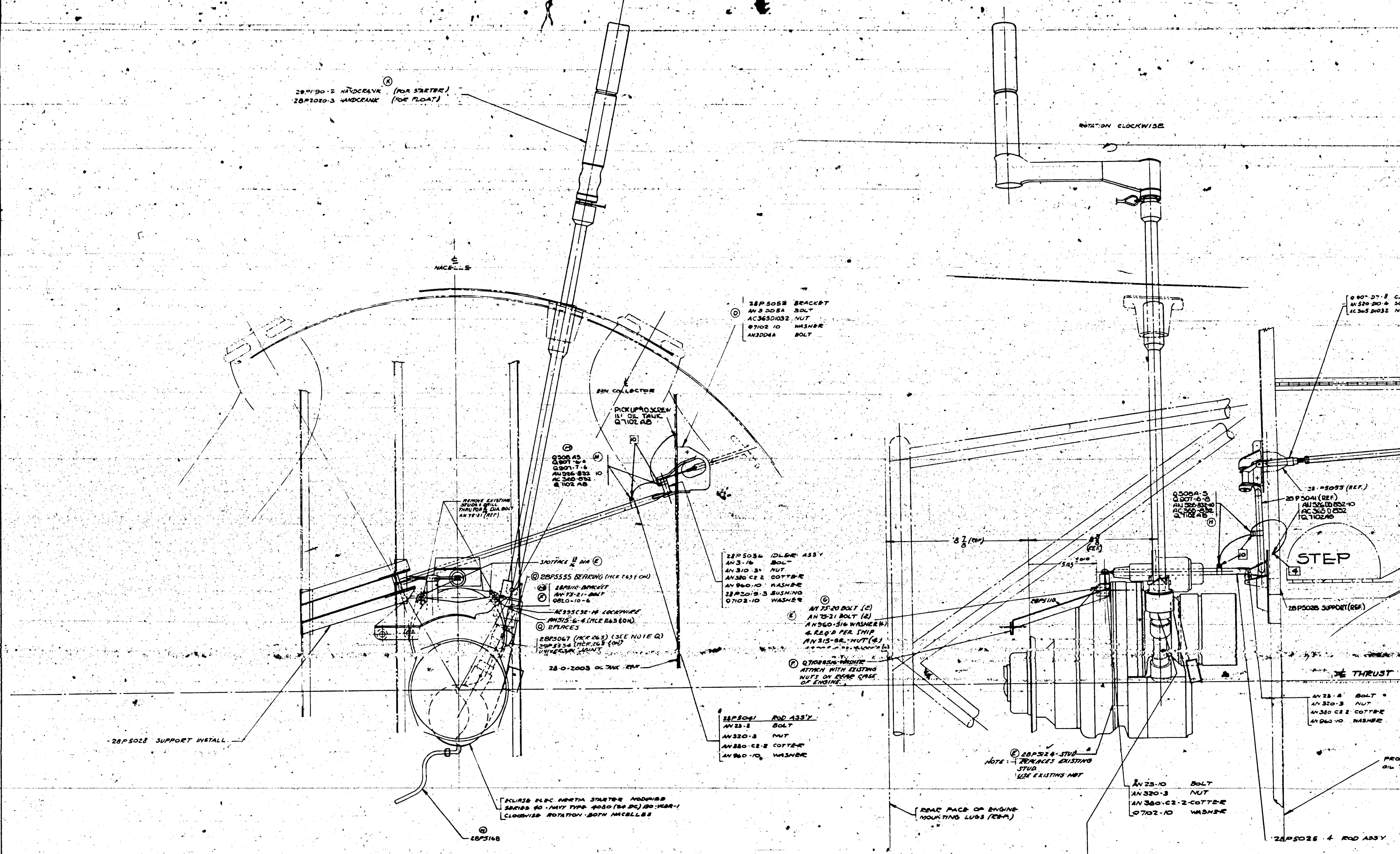
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.



SECTION A-A
SCALE: 12" = 1'0"
(ZONE B8)
LEFT SIDE VIEW
SCALE: 12" - 1'0"
DETAIL -11
(ZONE B10)
SECTION B-B
SCALE: 12" = 1'0"
(ZONE C7)
CONTROL BELLCRANK 28P5015 (-0 ¢ -2 ASSY) 28P5520 (-3 ¢ -4 ASSY)
28P5056 COVER
VALVE IN CLOSED POSITION
VALVE 28P5012
28P5016 LINK
28P5014 BELLCRANK
28P5009 SCOOP
32P023 SHAFT
OILITE BUSHING KINGWELL PRODUCTS #A-604-1
Q7014-C33-.064 WASHER
DUCT 28P5007
CARBURETOR BENDIX PD-12H4(REF)
MOUNT 28B5000(REF)
LUG ON CYL(REF)
K 4



CONTROL BELLCRANK 28P5013 (-0 & -2 ASSY) 28P5526 (-3 & -4 ASSY)
VALVE IN CLOSED POSITION
VALVE 28P5012
COVER
Q4305-D4 BRAZIER HEADS TO BE ON INSIDE OF DUCT.
320-003-44 GASKET
AC865-3
32G076 GASKET
AC865-1
28P302 GASKET
28P1330 FLANGE ON -2 & -4 ONLY
Q4305-D4 BRAZIER HEADS INSIDE DUCT (4)
28P5009 SCOOP
AN23-12 BOLT
AN960C10 WASHER
AN320-3 NUT
AN380C2-2 COTTER
AN23-10 BOLT
AN960C10 WASHER
AN320-3 NUT
AN380C2-2 COTTER
LEFT SIDE VIEW
SCALE: 12" = 1'0"
28P5064
NOTE: INSTALL FLANGES ON ℄ OF SCOOP
LOCK PUNCH OR PEEN
TRUE
AN442-D4 RIVET
1/8 SLOT IN -6
CUTOUT IN -8 & -10
COUNTERBORE
AN442-D4 RIVET
AN960-AL6 WASHER
Q4305 D4 BRAZIER HEAD INSIDE DUCT
Q7005-AL8-.031 WASHER ON OUTSIDE
AN442-D4 RIVET
AN960-AL6 WASHER
REAR VIEW
SCALE: 12" = 1'0"
Q7014-C33-.064 WASHER
32P023 SHAFT
OILITE BUSHING KINGWELL PRODUCTS
28P5014 (REF)
Q7014-C33-.064 WASHER
SECTION B-B
SCALE 12" = 1'0"
(ZONE C7)
AN310-10-8
DUCT 28P5007
AN23-10 BOLT
AN960C10 WASHER
AN320-3 NUT
AN380C2-2 COTTER
ON -0, -2, -3, ASSY ONLY.
PREHEATER 28P5003 (REF)
32D029 (REF)
LUG ON CYL (REF)
28P1280 SPRING ASSY -0, -2, -3, ONLY
10 BOLTS - 28P5153
LOCKWIRE AC995
CARBURETOR BENDIX PD-12H4 (REF)
SCREEN BETWEEN TWO (2) GASKETS (REF)
MOUNT 28B5000 (REF)
INSTALLATION LEFT SIDE VIEW
SCALE: 6" = 1'0"
NOTE:
-6 & -7 ARE IDENTICAL EXCEPT FOR SLIT IN -6
-8 IS OPPOSITE HAND OF -9 EXCEPT FOR CUTOUT IN -8.
CUT -6, -7 & BEND -8, -9 TO FIT SCOOP 28P5009 AT TOP.
K 4
WEIGHT NOTE
-0 ASSY 10.27
-2 ASSY 10.25
-3 ASSY 10.59
PARTS LIST PER ASSY.
PART NO.
STOCK
MATERIAL
SPEC.
NONE
NOTED
NAME INSTALLATION CARBURETOR AIR SCOOP
CONSOLIDATED AIRCRAFT CORP.
K 28P5008



VIEW LOOKING AFT.
(BOTH NACELLES)

NOTE:
(Q) WHEN FURNISHING SPARES FOR 28P5067 UNIVERSAL JOINT, ISSUE 28P5534 JOINT & CORRESPONDING BEARING, SCREWS ETC.

NOTE:
(K) PARTS MARKED # ARE CUSTOMER FURNISHED

(C) NOTE:
AN5-17A BOLT WITH #30 DRILL THRU HEAD (1 HOLE) TO BE USED UNTIL AN75-21 BOLTS ARE AVAILABLE.

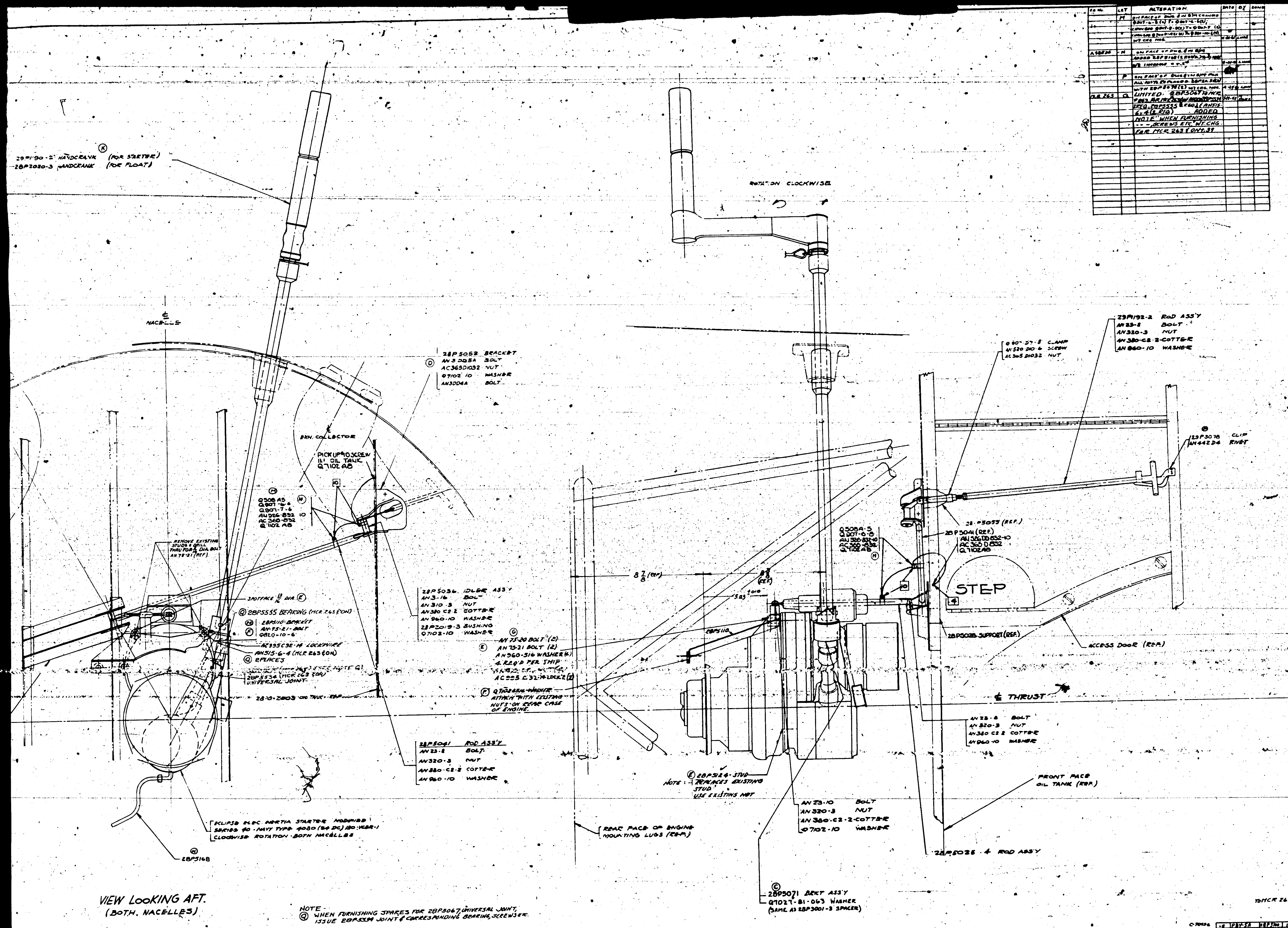
NOTE:
(E) INSTRUCTIONS COVERING PARTS FOR PBY-5 AIRPLANES WHICH HAVE BEEN DELIVERED WILL BE ISSUED AT A LATER DATE.

(F) NOTE:
IF ALUMINUM GASKETS ARE BEING USED THEY ARE TO BE REPLACED BY STD. P&W. STARTER GASKETS WHEN 28P5110 BRACKET IS ADDED.

(H) NOTE:
BOND IN ACCORDANCE WITH BONDING REPORT #28E4027
NUMBERS IN SQUARE REFER TO FIG. IN 28E4027

(K) NOTE:
PARTS MARKED △ ARE CONTRACTOR FURNISHED FOR 28-5ME, MA, MN, MC & AMC

K 5



VIEW LOOKING AFT.
(BOTH. NACELLES)

NOTE -
Ⓠ WHEN FURNISHING SPARES FOR 28P5067 UNIVERSAL JOINT, ISSUE 28P5534 JOINT & CORRESPONDING BEARING, SCREWS ETC.

NOTE:
Ⓚ PARTS MARKED # ARE CUSTOMER FURNISHED

Ⓔ NOTE:
AN5-17A BOLT WITH #30 DRILL THRU HEAD (1 HOLE) TO BE USED UNTIL AN75-21 BOLTS ARE AVAILABLE.

NOTE:
Ⓔ INSTRUCTIONS COVERING PARTS FOR PBY-5 AIRPLANES WHICH HAVE BEEN DELIVERED WILL BE ISSUED AT A LATER DATE.

Ⓕ NOTE:
IF ALUMINUM GASKETS ARE BEING USED THEY ARE TO BE REPLACED BY STD. P&W. STARTER GASKETS WHEN 28P5110 BRACKET IS ADDED.

Ⓗ NOTE:
BOND IN ACCORDANCE WITH BONDING REPORT #28E4027
NUMBERS IN SQUARE REFER TO FIG. IN 28E4027

Ⓚ NOTE:
PARTS MARKED △ ARE CONTRACTOR FURNISHED FOR 28-5ME, MA, MN, MC & AMC

K 5

SCALE 6 3/1'-0"

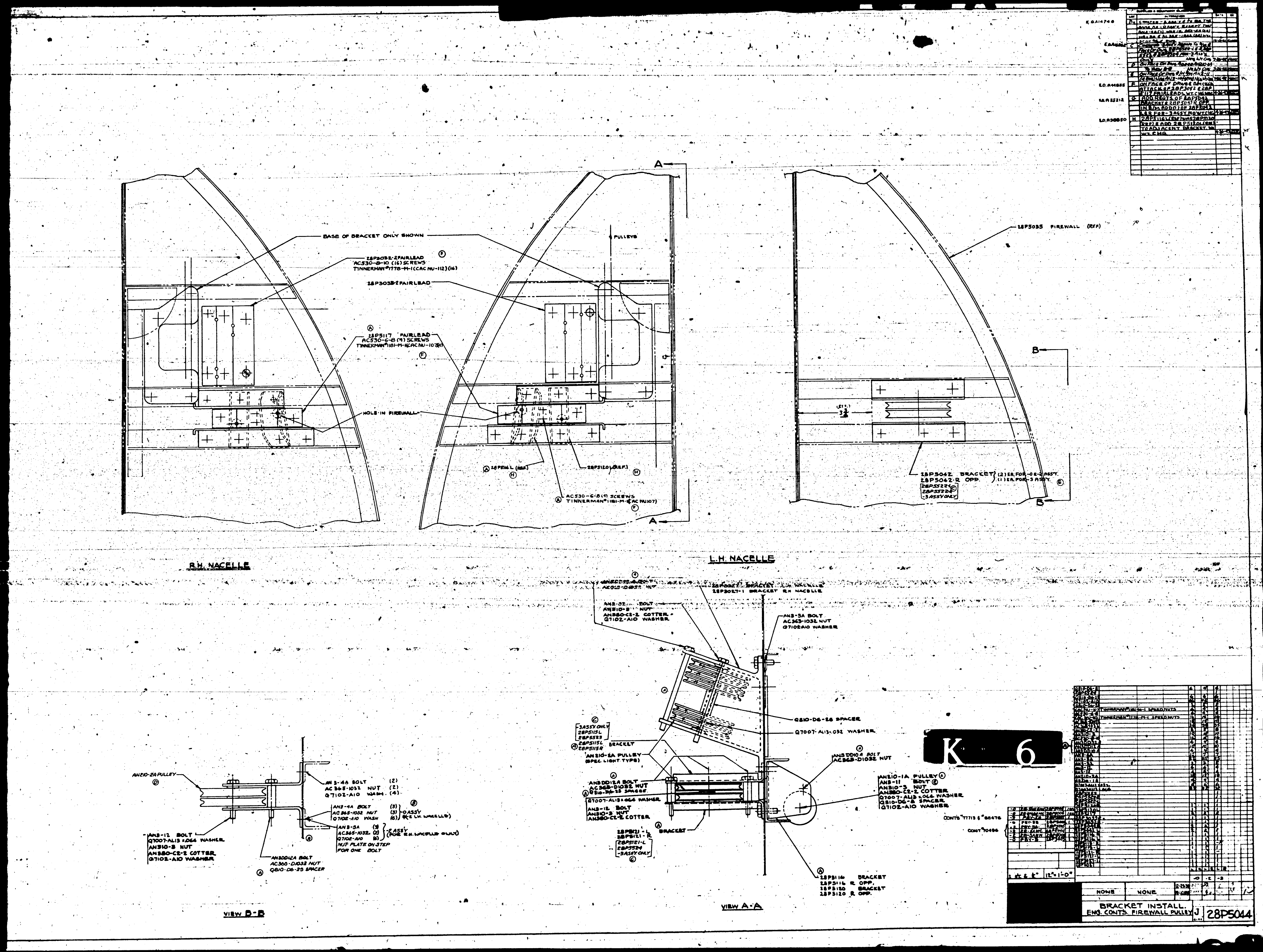
NAVY NONE — NONE

INSTALLATION STARTER

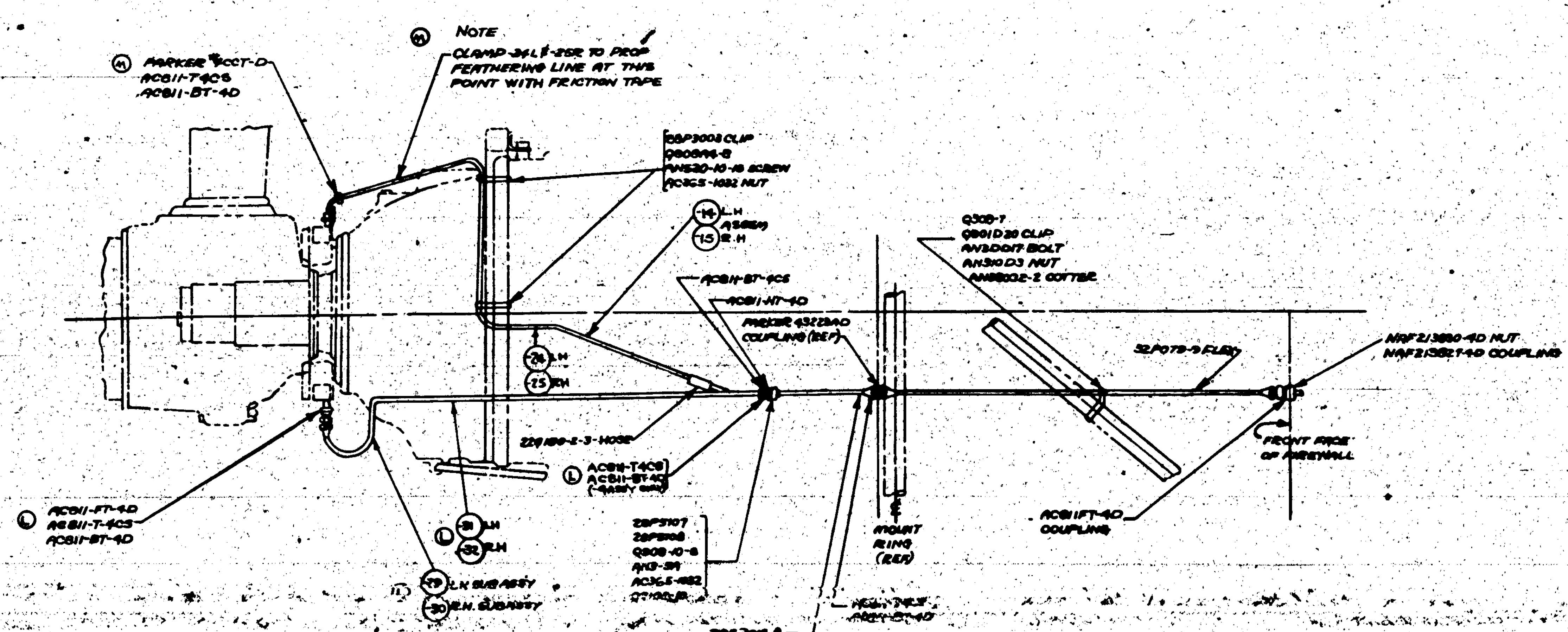
CONSOLIDATED AIRCRAFT CORP — SAN DIEGO, CALIF

K 28P5026

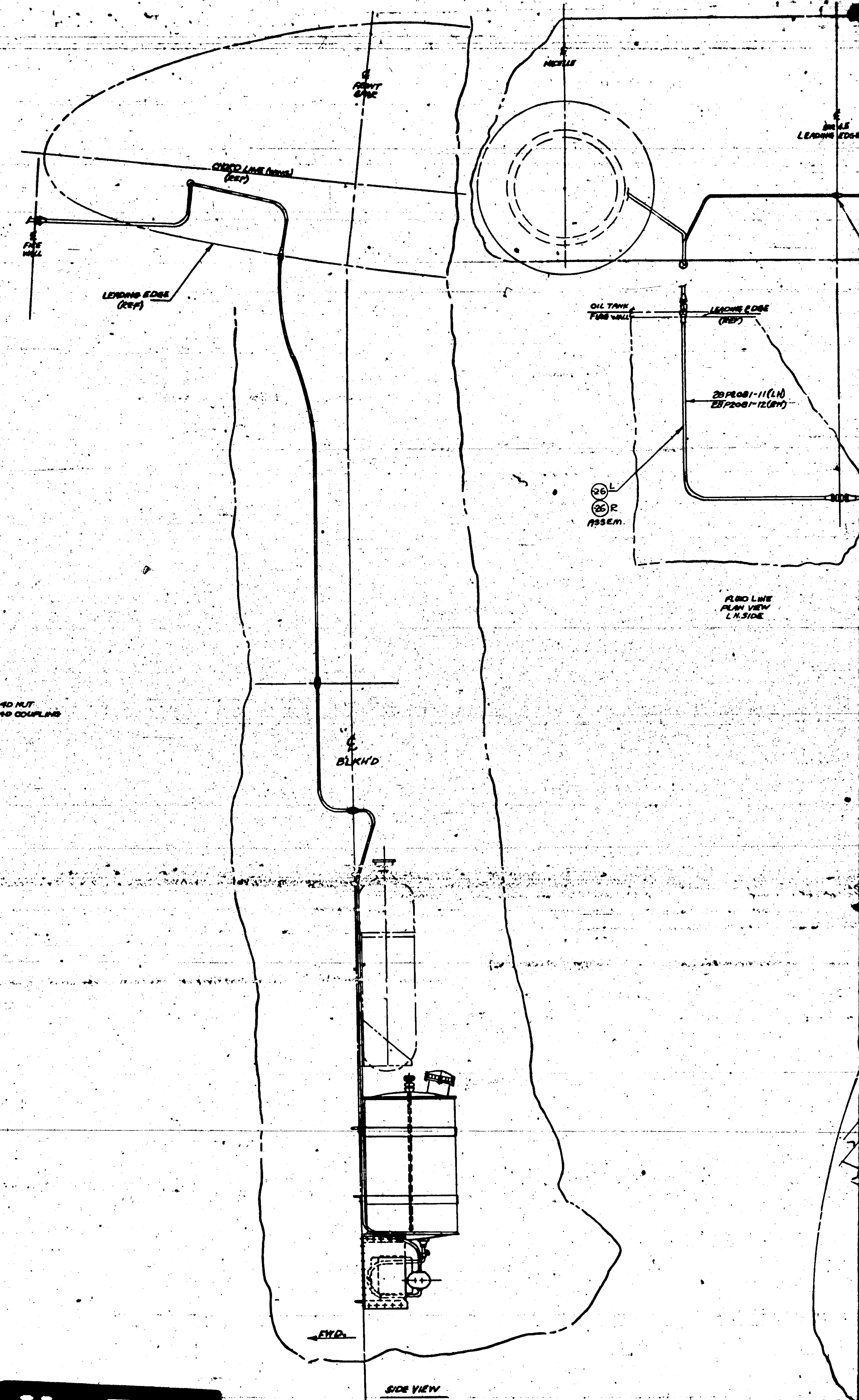
28P5026



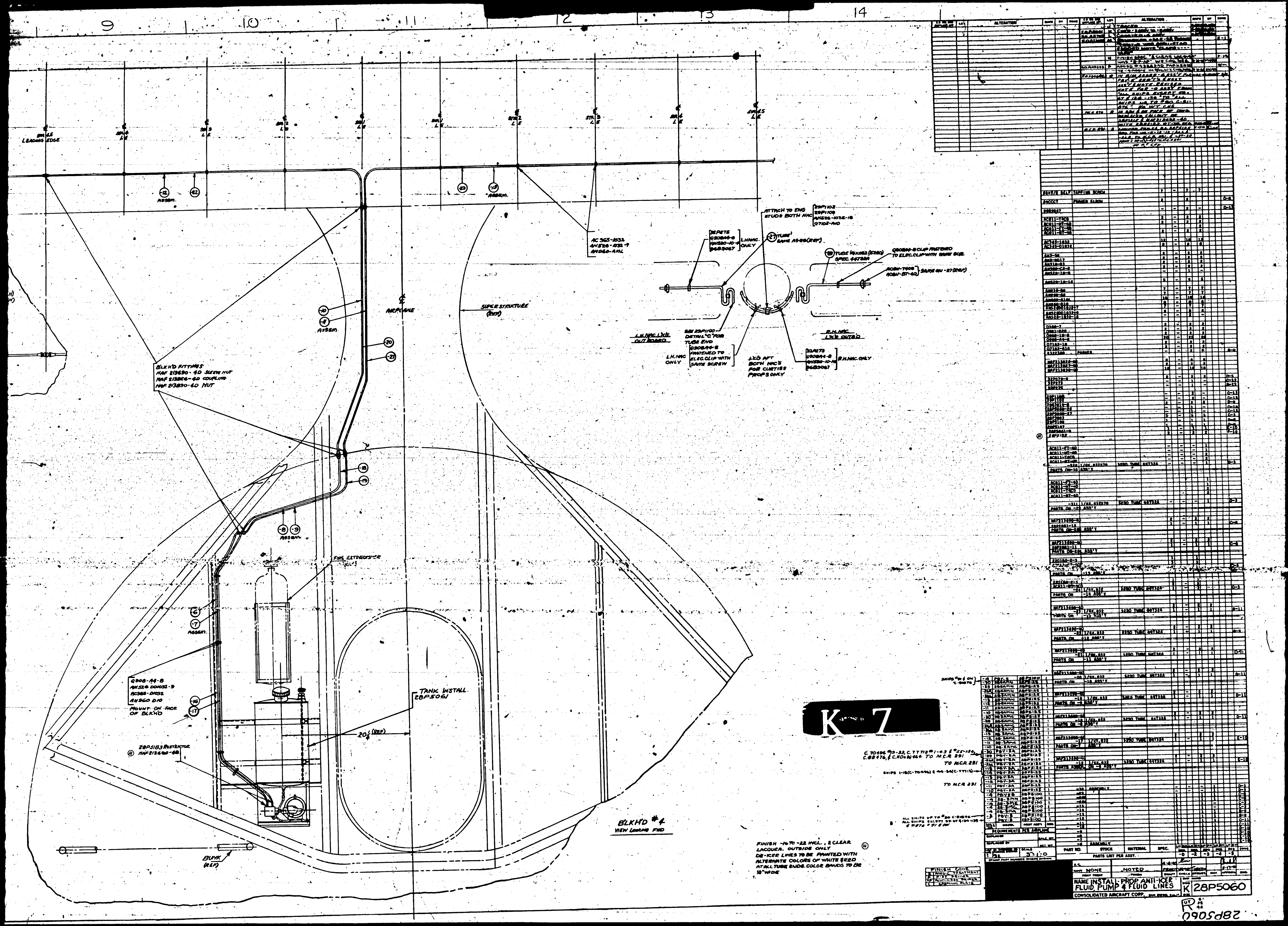
BASE OF BRACKET ONLY SHOWN
28P5032-2 FAIRLEAD
AC530-8-10 (16) SCREWS
TINNERMAN #7778-M-1 (CAC NU-112) (16)
28P5117 FAIRLEAD
AC530-6-8 (4) SCREWS
TINNERMAN #1181-M-1 (CAC NU-107)
HOLE IN FIREWALL
28P5035 FIREWALL (REF)
28P5042 BRACKET
28P5042-R OPP.
R.H. NACELLE
L.H. NACELLE
VIEW B-B
VIEW A-A
AN210-2A PULLEY
AN3-4A BOLT
AC365-1032 NUT
Q7102-A10 WASH.
AN3-12 BOLT
Q7007-A113 .064 WASHER
AN310-3 NUT
AN380-C2-2 COTTER
Q7102-A10 WASHER
Q810-D6-26 SPACER
Q7007-A113 .032 WASHER
28P5116 BRACKET
28P5116 R OPP.
28P5120 BRACKET
28P5120 R OPP.
K 6
BRACKET INSTALL.
ENG. CONTS. FIREWALL PULLEY
J 28P5044



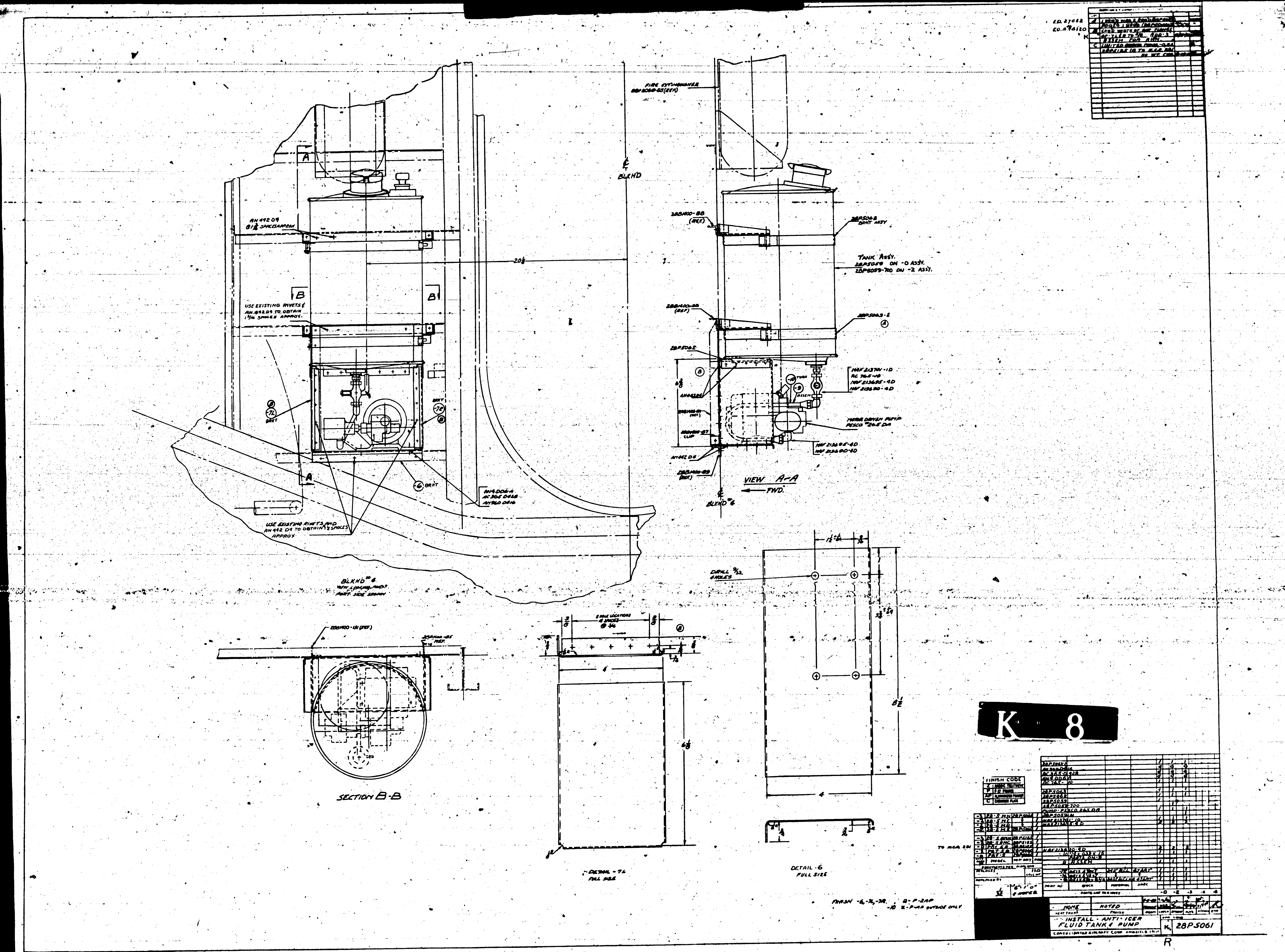
R.H. SIDE VIEW
LOOKING OUTBD FROM L.E. STA 45
FOR HAMILTON STD PROPS ONLY



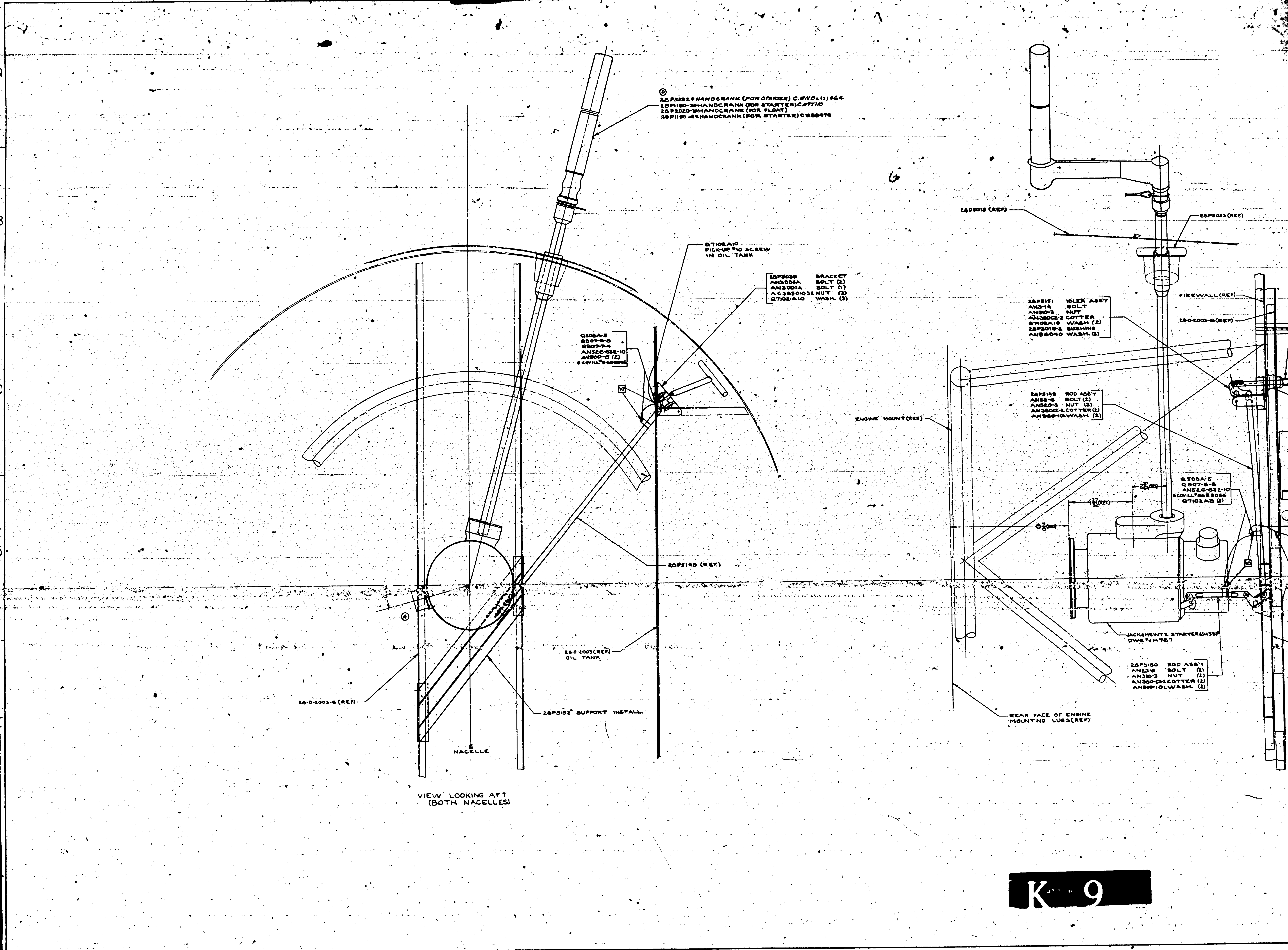
K 7



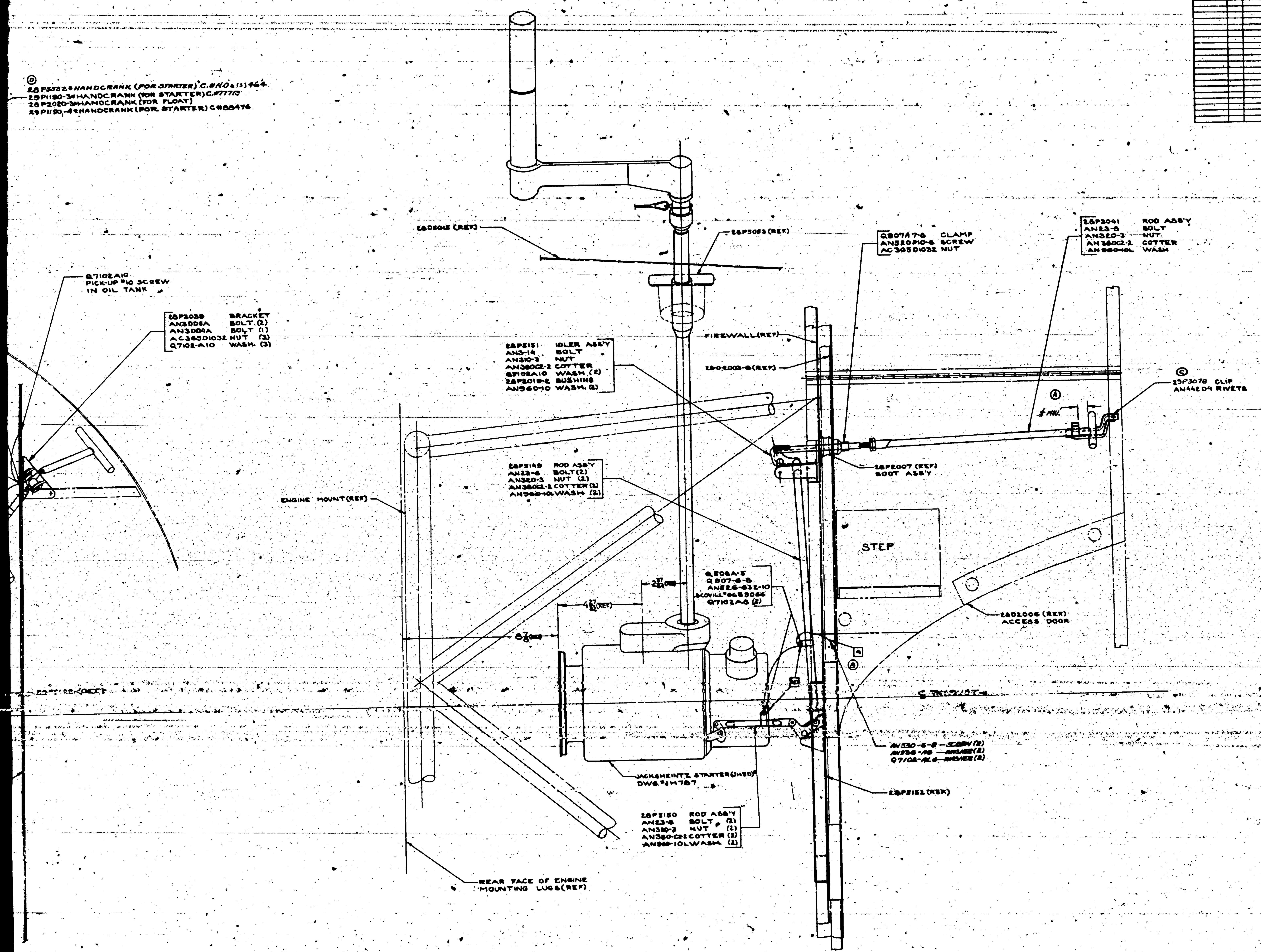
9
10
11
12
13
14
LEADING EDGE
ASSEM.
AIRPLANE
SUPER STRUCTURE (REF)
BLKHD FITTINGS
AC 365-1032
ATTACH TO ENG STUDS BOTH NAC
L.H. NAC ONLY
R.H. NAC ONLY
FIRE EXTINGUISHER
TANK INSTALL 28P5061
MOUNT ON FACE OF BLKHD
28P5183 RESTRICTOR
BLKH'D #4
VIEW LOOKING FWD
BUNK (REF)
K 7
FINISH -1 TO -22 INCL., 2 CLEAR LACQUER, OUTSIDE ONLY
DE-ICER LINES TO BE PAINTED WITH ALTERNATE COLORS OF WHITE
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY.
NONE
NOTED
NAME INSTALL-PROP ANTI-ICER FLUID PUMP & FLUID LINES
K 28P5060
CONSOLIDATED AIRCRAFT CORP.
28P5060



FIRE EXTINGUISHER
BLKHD
TANK ASSY.
28P5059 ON -0 ASSY.
28P5059-700 ON -2 ASSY.
MOTOR DRIVEN PUMP
PESCO #265 DA
VIEW A-A
FWD.
USE EXISTING RIVETS & AN442D4 TO OBTAIN 1 7/16 SPACES APPROX.
USE EXISTING RIVETS AND AN442D4 TO OBTAIN 1 1/2 SPACES APPROX
SECTION B-B
DRILL 9/32 4 HOLES
DETAIL -7L FULL SIZE
DETAIL -6 FULL SIZE
K 8
FINISH CODE
NONE
NOTED
HEAT TREAT
FINISH
INSTALL - ANTI - ICER
FLUID TANK & PUMP
CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF
28P5061
R


D
28P5532 HANDCRANK (FOR STARTER) C.#NO.(S) 464
28P1190-3 HANDCRANK (FOR STARTER) C.#77712
28P2020-3 HANDCRANK (FOR FLOAT)
28P1190-4 HANDCRANK (FOR STARTER) C#88476
Q7102A10
PICK-UP #10 SCREW
IN OIL TANK
28P2039 BRACKET
AN3DD5A BOLT (2)
AN3DD4A BOLT (1)
AC365D1032 NUT (3)
Q7102-A10 WASH. (3)
Q508A-5
Q907-6-6
Q907-7-4
AN526-632-10
AN900-6 (2)
SCOVILL #8688066
10
28P5149 (REF)
28-0-2003 (REF)
OIL TANK
28-0-2003-6 (REF)
28P5152 SUPPORT INSTALL
NACELLE
VIEW LOOKING AFT
(BOTH NACELLES)
28D5015 (REF)
28P5053 (REF)
FIREWALL (REF)
28-0-2003-G (REF)
28P5151 IDLER ASS'Y
AN3-14 BOLT
AN310-3 NUT
AN380C2-2 COTTER
Q7102A10 WASH (2)
28P2019-2 BUSHING
AN960-10 WASH. (2)
ENGINE MOUNT (REF)
28P5149 ROD ASS'Y
AN23-6 BOLT (2)
AN320-3 NUT (2)
AN380C2-2 COTTER (2)
AN960-10L WASH. (2)
Q508A-5
Q907-6-6
AN526-632-10
SCOVILL #8689066
Q7102A8 (2)
JACK & HEINTZ STARTER (JH5D)
DWG #JH787
28P5150 ROD ASS'Y
AN23-6 BOLT (2)
AN320-3 NUT (2)
AN380-C2-2 COTTER (2)
AN960-10L WASH. (2)
REAR FACE OF ENGINE
MOUNTING LUGS (REF)

K 9



JACKSHEINTZ STARTER (JH5D) DWG #JH787

K 9

CONT. NO. CONT. 77713 & C-#88476

2. BOND IN ACCORDANCE WITH BONDING REPORT #28E4027. NUMBERS IN SQUARE REFER TO FIGURE IN 28E4027.
1. PARTS MARKED ARE CUSTOMER FURNISHED.

NOTES

SCALE 6" = 1'-0"

PARTS LIST PER ASSY.

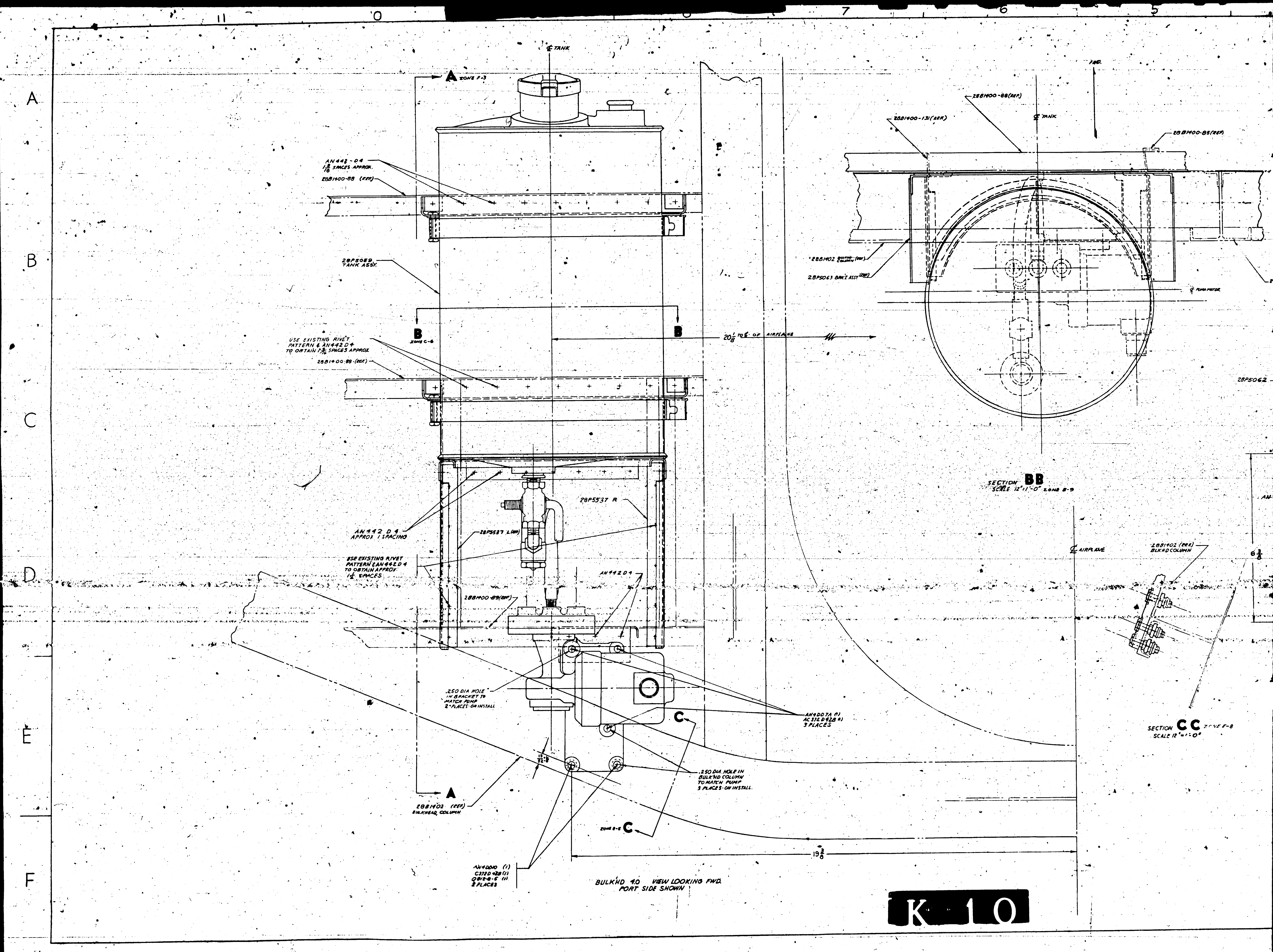
NONE NONE

NAME INSTALLATION STARTER

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

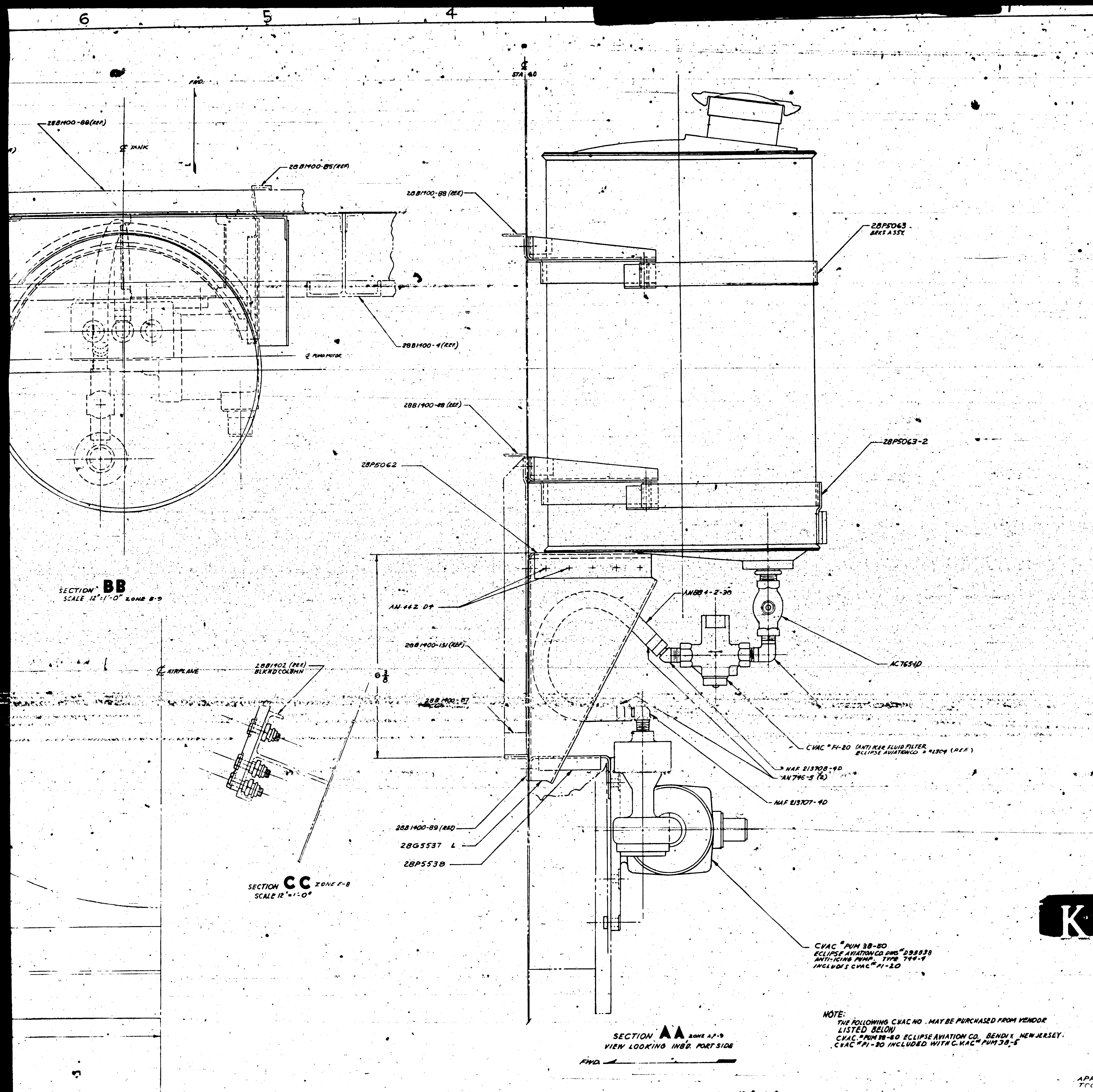
K 28P5109

PHOTO CHECKED 5/28/42



℄ TANK
A ZONE F-3
AN442 - D4
28B1400-88 (REF)
28P5059 TANK ASSY.
B ZONE C-6
B
20 1/8 TO ℄ OF AIRPLANE
USE EXISTING RIVET PATTERN & AN442 D4 TO OBTAIN 1 1/2 SPACES APPROX.
28B1400-88 (REF)
28P5537 R
AN442 D4 APPROX 1 SPACING
28P5537 L (OPP)
USE EXISTING RIVET PATTERN & AN442 D4 TO OBTAIN APPROX 1 1/2 SPACES
AN442 D4
28B1400-89 (REF)
.250 DIA HOLE IN BRACKET TO MATCH PUMP 2 PLACES-ON INSTALL
AN4DD7A (1) AC372D428 (1) 3 PLACES
C
.250 DIA HOLE IN BULK'HD COLUMN TO MATCH PUMP 3 PLACES-ON INSTALL.
A
28B1402 (REF) BULKHEAD COLUMN
ZONE E-5 C
19 3/8
AN4DD10 (1) C372D428 (1) 2 PLACES
BULK'HD 40 VIEW LOOKING FWD. PORT SIDE SHOWN
28B1400-88 (REF)
28B1400-131 (REF)
℄ TANK
28B1400-85 (REF)
28B1402 (REF)
28P5063 BRK'T ASSY (REF)
28P5062
SECTION BB SCALE 12"=1'-0" ZONE B-9
℄ AIRPLANE
28B1402 (REF) BLKHD COLUMN
SECTION CC ZONE F-8 SCALE 12"=1'-0"

K 10



K 10

NOTE:
THE FOLLOWING C.VAC NO. MAY BE PURCHASED FROM VENDOR LISTED BELOW
C.VAC. # PUM 38-80 ECLIPSE AVIATION CO. BENDIX NEW JERSEY.
C.VAC # F1-20 INCLUDED WITH C.VAC # PUM 38-5

APPROVED FOR TOOLING BY
[signature] 9-9-43

MCR 291-1 ℄ ON

PART NO.	ZONE
28P5538	B-9
28P5062	C-9
28P5059	B-10
28P5063	B-2
28P5063-2	C-8
28P5537 A	B-9
28P5537 A	D-9

PARTS LIST PER ASSY.

REQUIREMENTS PER AIRPLANE — LBY-5A — 28P5535

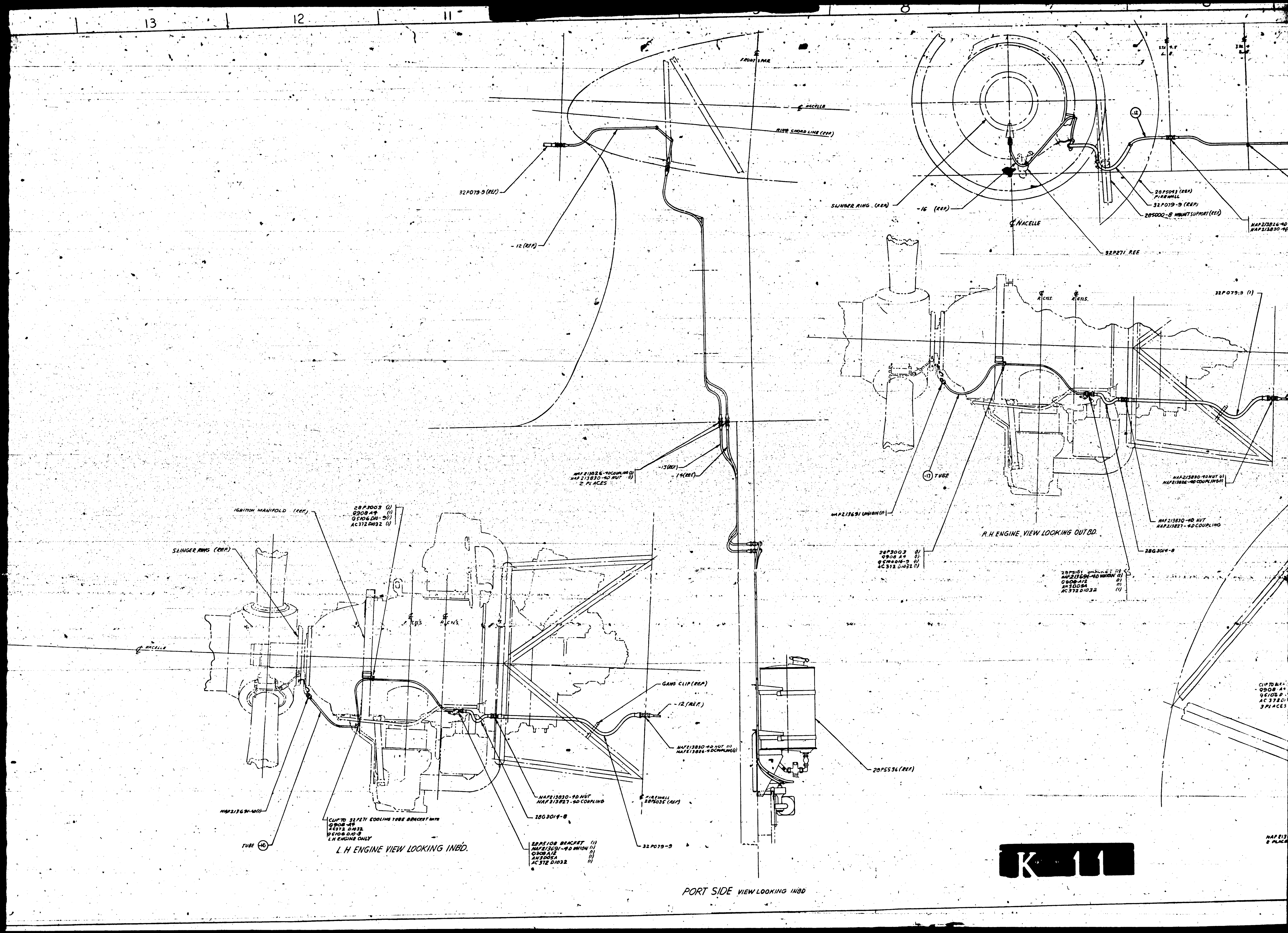
SCALE ½"=1'-0" & NOTED

NAME INSTALLATION - ANTI ICING FLUID TANK & PUMP

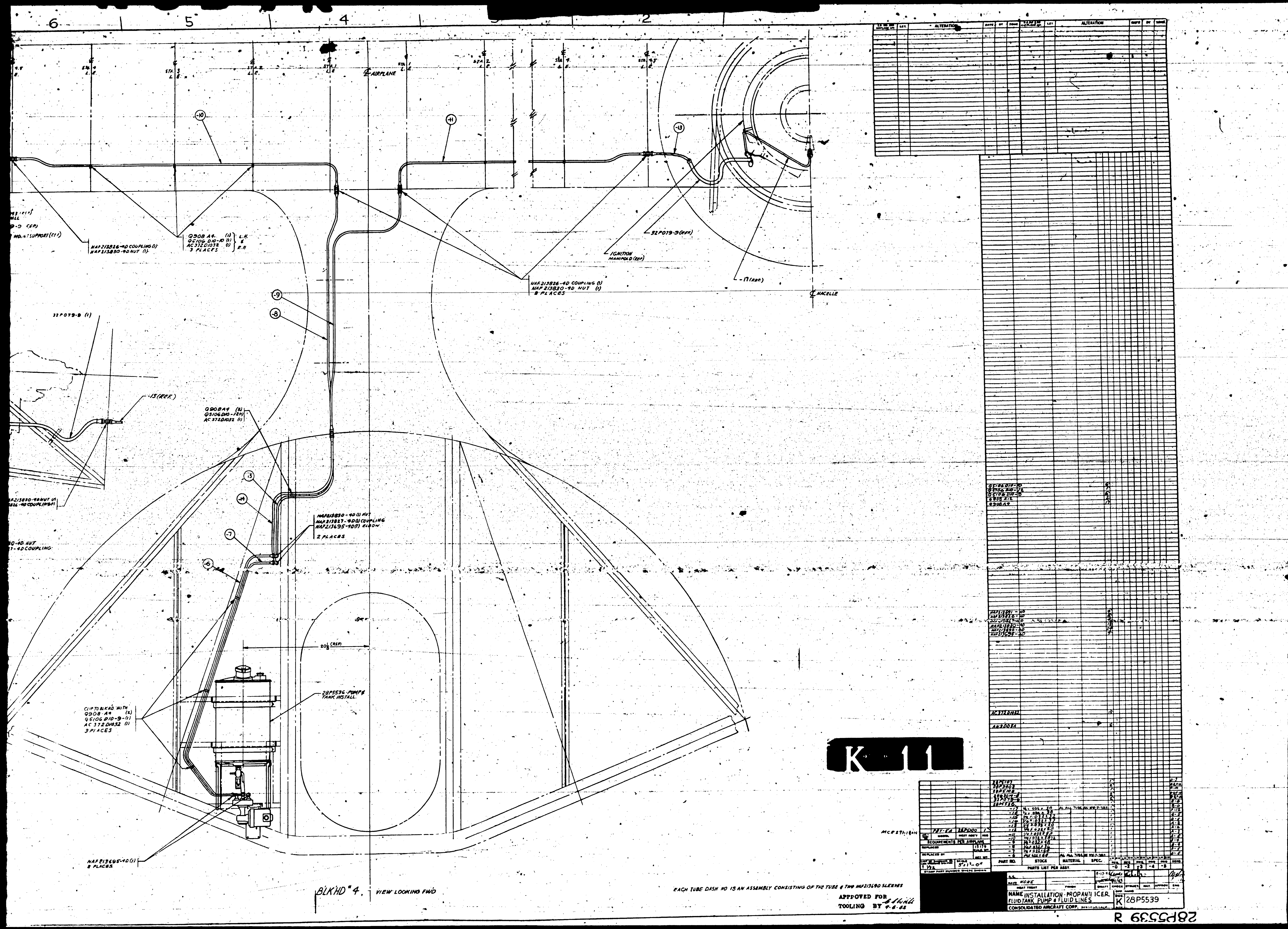
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.

K 28P5536

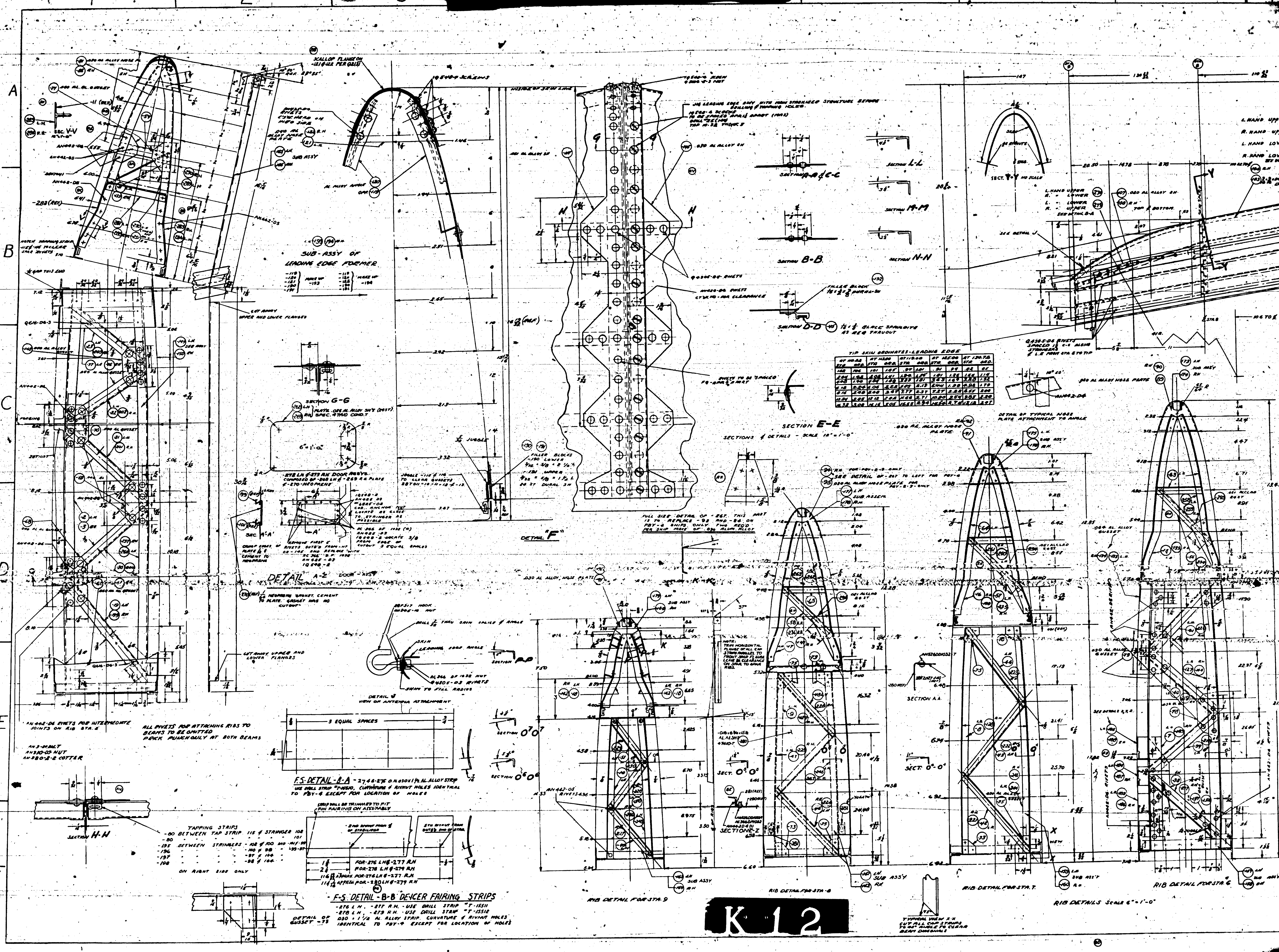
R 28P5536

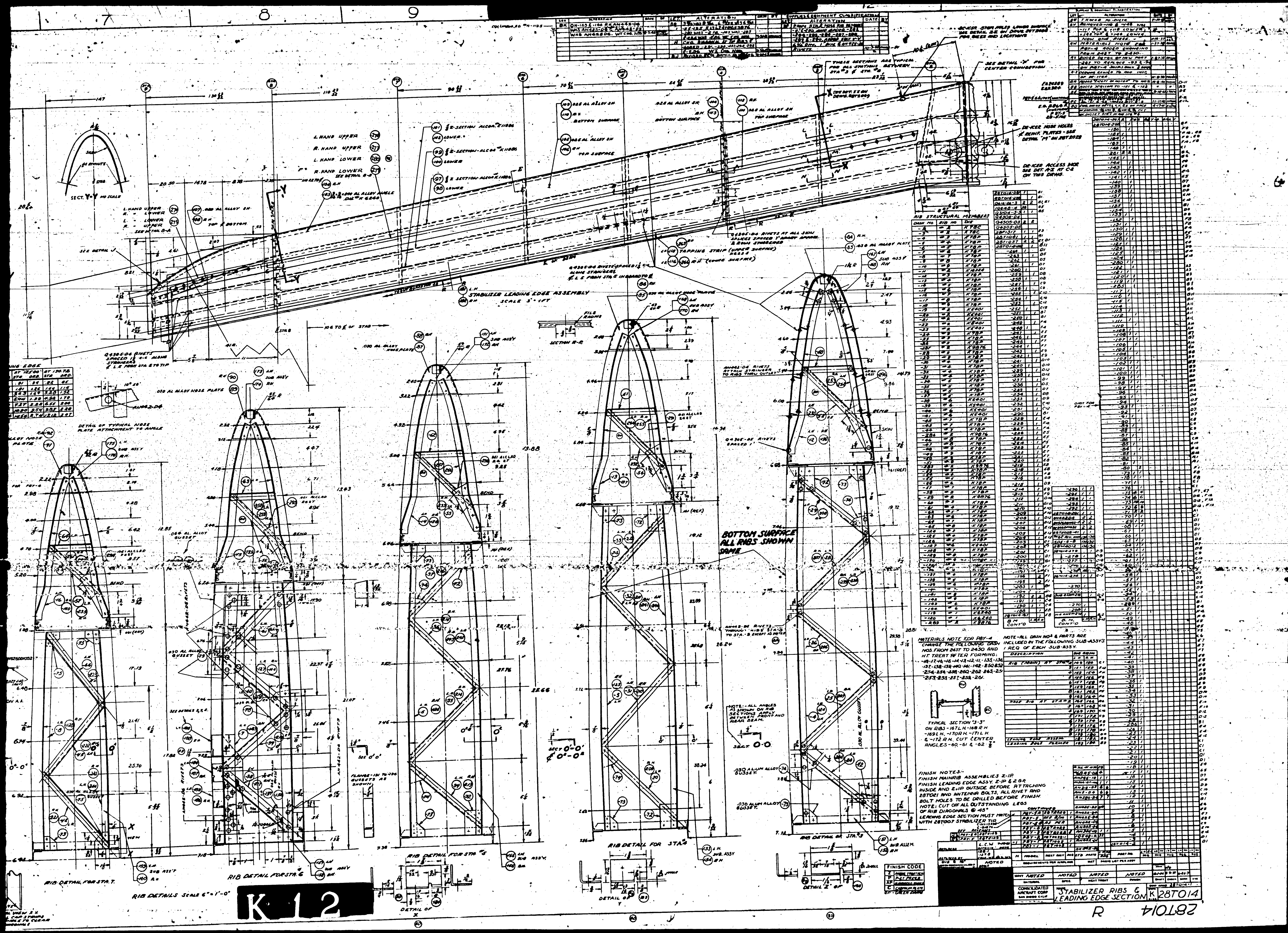


13
12
11
8
FRONT SPAR
RING CHORD LINE (REF)
32P079-9 (REF)
-12 (REF)
SLINGER RING (REF)
-16 (REF)
℄ NACELLE
32P271 REF
32P079-9 (REF)
285000-8 MOUNT SUPPORT (REF)
R.H. ENGINE, VIEW LOOKING OUTBD.
28G3014-8
-17 TUBE
NAF213691 UNION (1)
IGNITION MANIFOLD (REF)
SLINGER RING (REF)
GANG CLIP (REF)
-12 (REF)
TUBE -16
28G3014-8
32P079-9
28P5536 (REF)
L.H ENGINE VIEW LOOKING INBD.
PORT SIDE VIEW LOOKING INBD
K-11

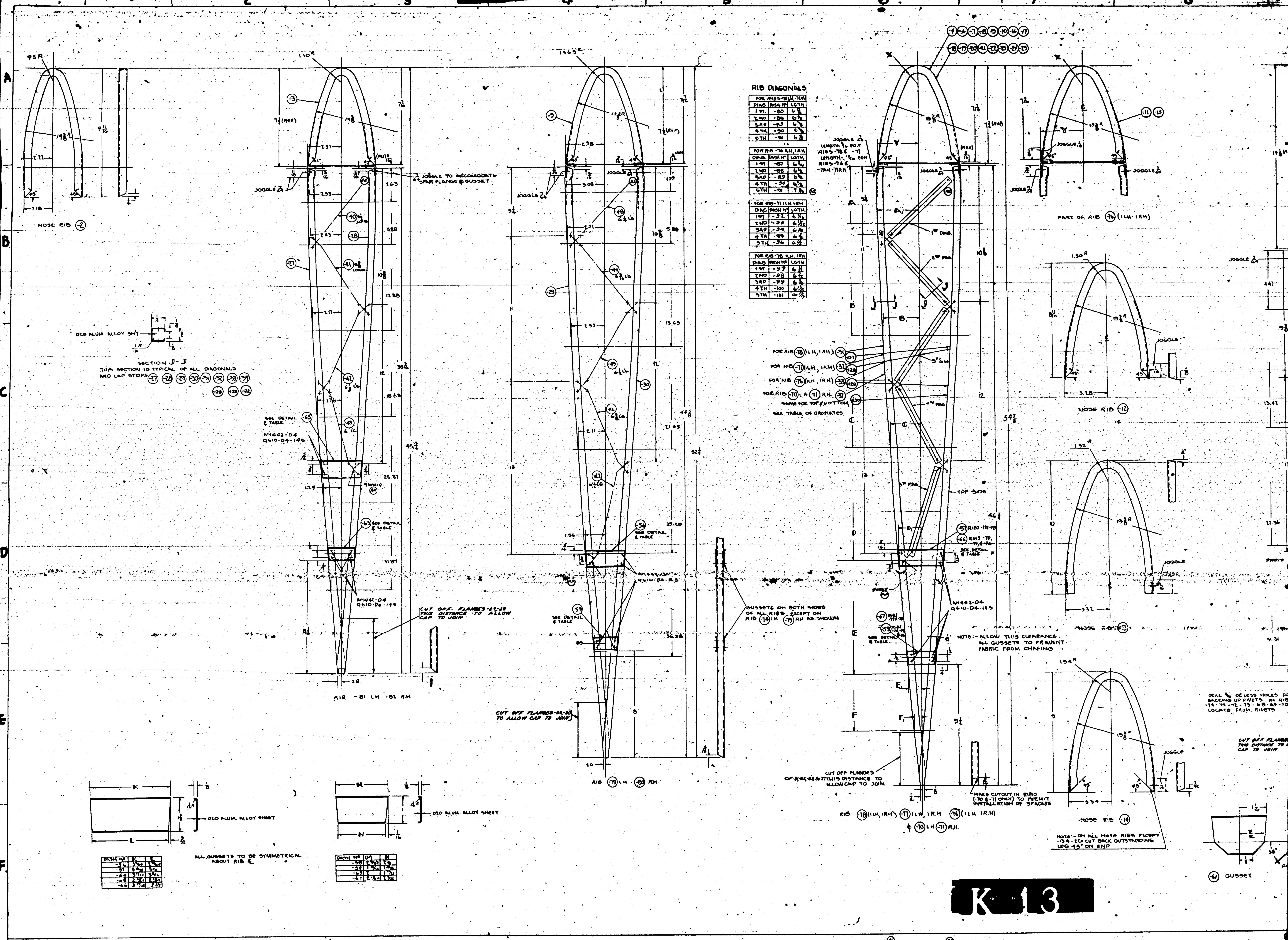


K-11
NAF213826-4D COUPLING (1)
NAF213830-4D NUT (1)
8 PLACES
IGNITION MANIFOLD (REF)
32P079-9 (REF)
Q908 A4. (1)
Q5106 D10-10 (1)
AC 372D1032 (1)
3 PLACES
NAF213830-4D (1) NUT
NAF213827-4D (1) COUPLING
NAF213695-4D (1) ELBOW
2 PLACES
CLIP TO BLK'HD WITH
Q908 A4 (2)
Q5106 D10-9-(1)
AC 372D1032 (1)
3 PLACES
28P5536-PUMP & TANK INSTALL.
NAF213695-4D (1)
2 PLACES
BLK'HD #4. VIEW LOOKING FWD
EACH TUBE DASH NO IS AN ASSEMBLY CONSISTING OF THE TUBE & TWO NAF213690 SLEEVES
APPROVED FOR TOOLING BY
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY.
PART NO.
STOCK
MATERIAL
SPEC.
NAME INSTALLATION - PROPANTI ICER FLUID TANK, PUMP & FLUID LINES
CONSOLIDATED AIRCRAFT CORP.
K 28P5539
28P5539 R


SUB-ASSY OF
LEADING EDGE FORMER
SECTION B-B
SECTION E-E
SECTIONS & DETAILS - SCALE 12" = 1'-0"
DETAIL "F"
SECTION G-G
DETAIL A-Z
SECTION H-H
F.S. DETAIL-B-A
F.S. DETAIL-B-B DEICER FAIRING STRIPS
TIP SKIN ORDINATES-LEADING EDGE
RIB DETAIL FOR STA. 9
RIB DETAIL FOR STA. 8
RIB DETAIL FOR STA. 7
RIB DETAIL FOR STA. 6
RIB DETAILS SCALE 6" = 1'-0"
ALL RIVETS FOR ATTACHING RIBS TO BEAMS TO BE OMITTED
K 12



STABILIZER LEADING EDGE ASSEMBLY SCALE 3" = 1 FT
SECT. Y-Y NO SCALE
BOTTOM SURFACE ALL RIBS SHOWN SAME
RIB STRUCTURAL MEMBERS
RIB DETAIL FOR STA. 7
RIB DETAIL FOR STA. 6
RIB DETAIL FOR STA. 5
RIB DETAIL FOR STA. 4
RIB DETAIL FOR STA. 3
RIB DETAILS SCALE 6" = 1'-0"
SECT. O-O
MATERIALS NOTE FOR PBY-4 CHANGE THE FOLLOWING DASH NOS. FROM 24ST TO 24SO AND HT. TREAT AFTER FORMING:
NOTE - ALL DASH NOS. & PARTS ARE INCLUDED IN THE FOLLOWING SUB-ASSY'S 1 REQ OF EACH SUB-ASSY.
FINISH NOTES:- FINISH MAINRIB ASSEMBLIES Z-1P. FINISH LEADING EDGE ASSY. Z-1P & Z-6A INSIDE AND Z-1P OUTSIDE BEFORE ATTACHING 28T001 AND ANTENNA BOLTS. ALL RIVET AND BOLT HOLES TO BE DRILLED BEFORE FINISH
NOTE: CUT OFF ALL OUTSTANDING LEGS OF RIB DIAGONALS @ 45°
LEADING EDGE SECTION MUST MATCH WITH 28T007 STABILIZER TIP
FINISH CODE
K 12
CONSOLIDATED AIRCRAFT CORP
STABILIZER RIBS & LEADING EDGE SECTION
K 28T014
R
28T014



RIB DIAGONALS

FOR RIBS -70 LH, -71 RH		
DIAG	DASH NO	LGTH
1ST.	-85	6 [illegible]
2ND	-86	6 [illegible]
3RD	-49	6 [illegible]
4TH	-50	6 [illegible]
5TH	-51	6 [illegible]

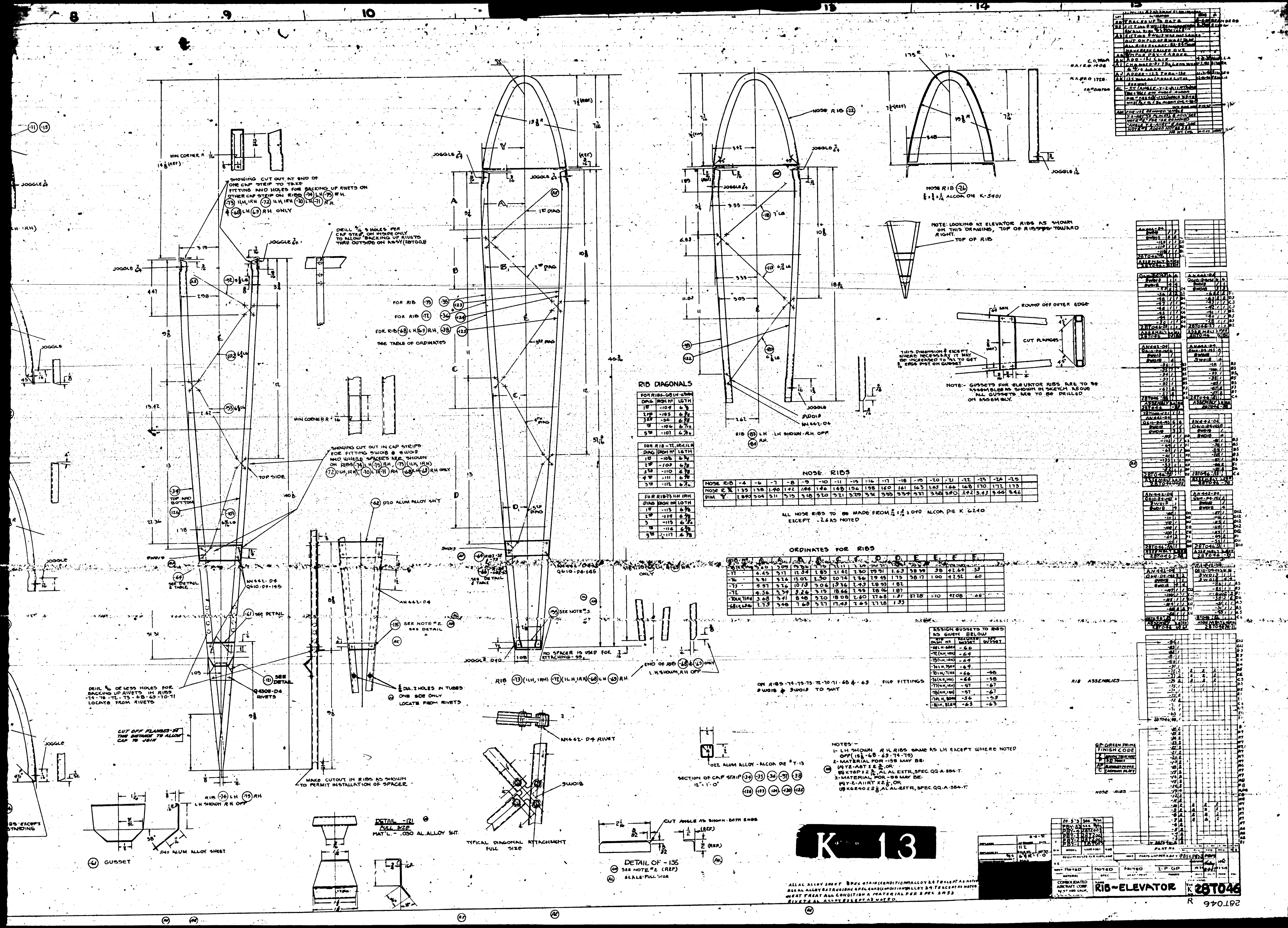
FOR RIB -76 ILH, IRH		
DIAG.	DASH NO	LGTH
1ST	-87	6 [illegible]
2ND	-88	6 [illegible]
3RD	-89	6 [illegible]
4TH	-90	6 [illegible]
5TH	-91	7 [illegible]

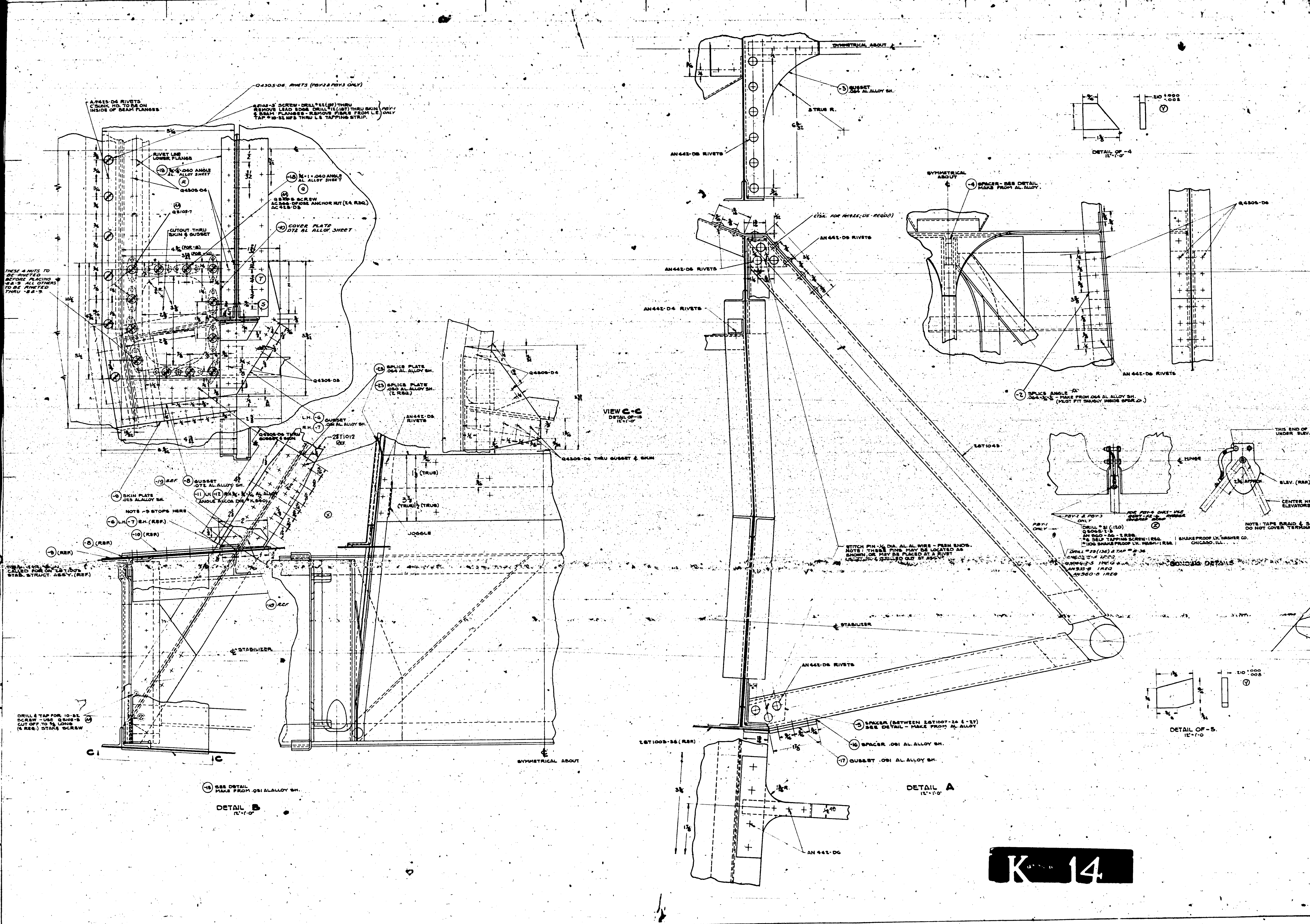
FOR RIB -77 ILH IRH		
DIAG	DASH NO	LGTH
1ST	-92	6 [illegible]
2ND	-93	6 [illegible]
3RD	-94	6 [illegible]
4TH	-95	6 [illegible]
5TH	-96	6 [illegible]

FOR RIB -78 ILH, IRH		
DIAG	DASH NO	LGTH.
1ST	-97	6 [illegible]
2ND	-98	6 [illegible]
3RD	-99	6 [illegible]
4TH	-100	6 [illegible]
5TH	-101	6 [illegible]

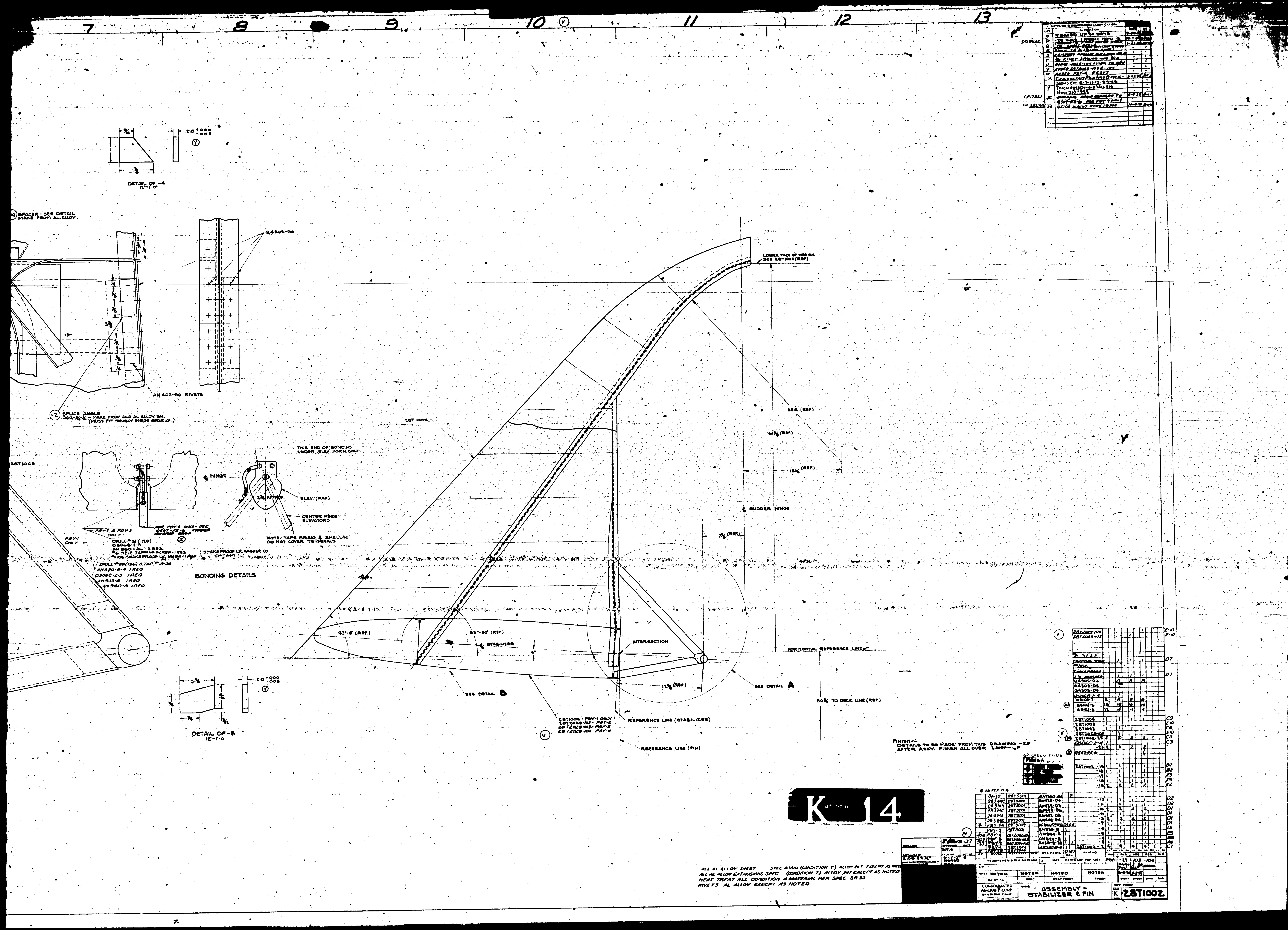
DASH NO	K	L
-56	[illegible]	[illegible]
-57	[illegible]	[illegible]
-64	[illegible]	[illegible]
-65	[illegible]	[illegible]
-66	[illegible]	[illegible]

DASH NO	M	N
-58	[illegible]	[illegible]
-59	[illegible]	[illegible]
-63	2	[illegible]
-67	[illegible]	[illegible]

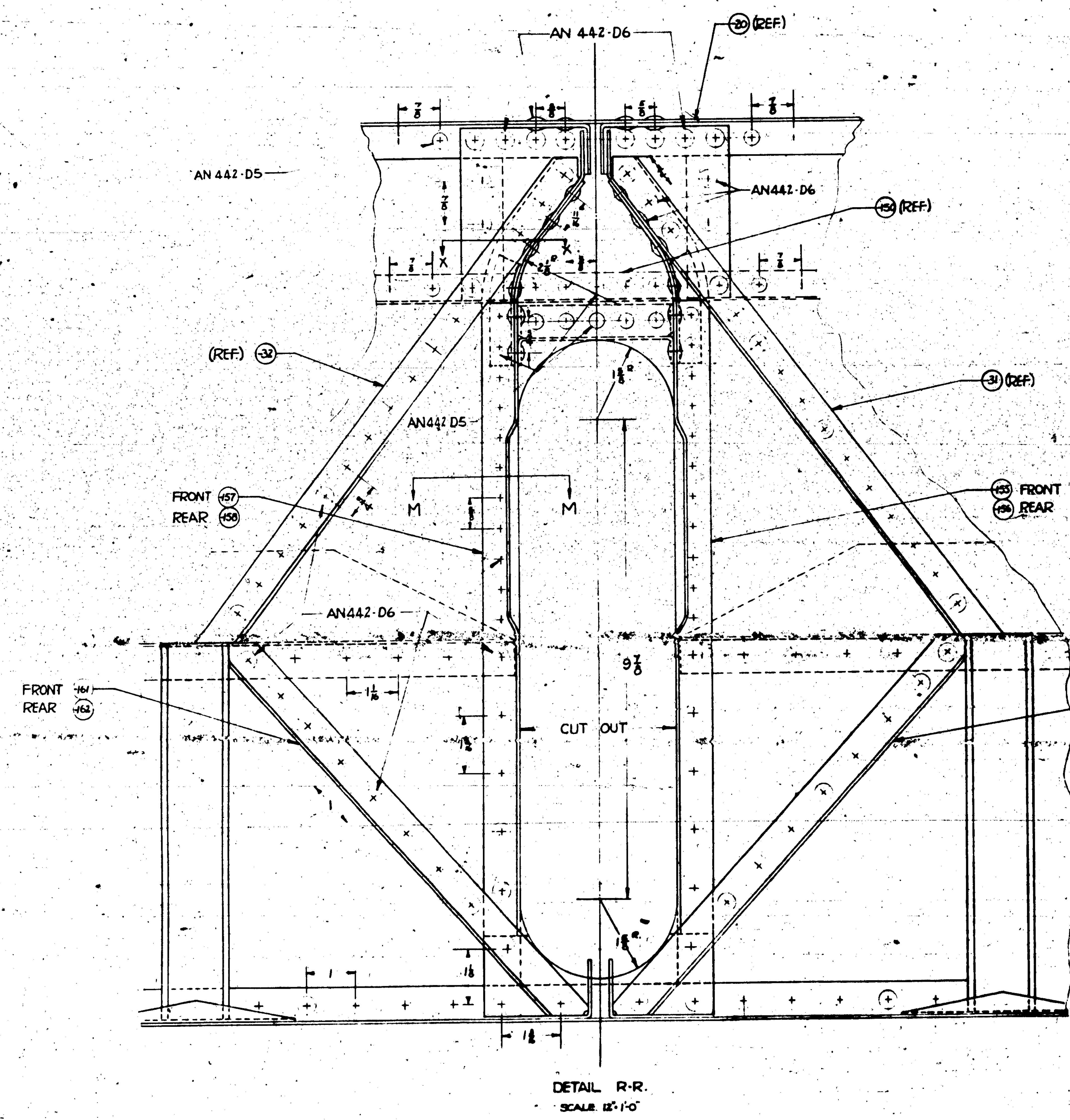

RIB DIAGONALS
NOSE RIBS
ALL NOSE RIBS TO BE MADE FROM .040 ALCOA DIE K 6240 EXCEPT -26 AS NOTED
ORDINATES FOR RIBS
NOTE: LOOKING AT ELEVATOR RIBS AS SHOWN ON THIS DRAWING, TOP OF RIBS TOWARD RIGHT.
TOP OF RIB
ROUND OFF OUTER EDGE
CUT FLANGES
GUSSET
DETAIL -121 FULL SIZE
TYPICAL DIAGONAL ATTACHMENT FULL SIZE
DETAIL OF -135
AN442-D4 RIVET
NOTES:
1- LH SHOWN R.H. RIBS SAME AS LH EXCEPT WHERE NOTED
K 13
RIB-ELEVATOR
28T046
CONSOLIDATED AIRCRAFT CORP.



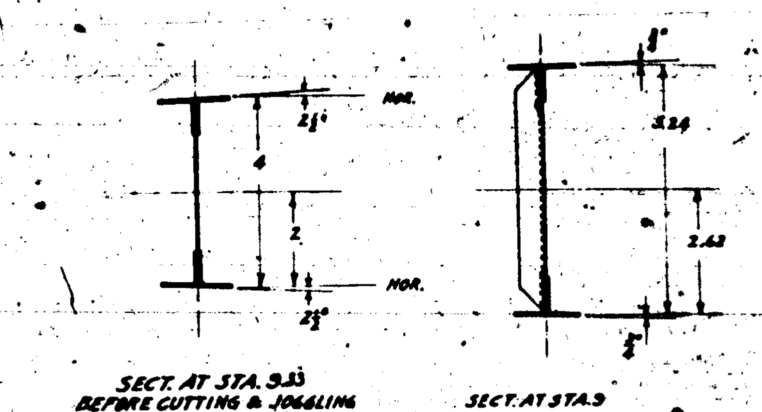
DETAIL B
12" = 1'-0"
DETAIL A
12" = 1'-0"
VIEW C-C
DETAIL OF -4
12" = 1'-0"
DETAIL OF -5.
12" = 1'-0"
SYMMETRICAL ABOUT
℄ STABILIZER
℄ HINGE
AN442-D6 RIVETS
AN442-D4 RIVETS
Q4305-D6
Q4305-D4
28T1043
JOGGLE
SYMMETRICAL ABOUT ℄
-15 SEE DETAIL MAKE FROM .051 AL. ALLOY SH.
-16 SPACER .091 AL. ALLOY SH.
-17 GUSSET .091 AL. ALLOY SH.
-2 SPLICE ANGLE
-3 GUSSET .064 AL. ALLOY SH.
-4 SPACER - SEE DETAIL MAKE FROM AL. ALLOY.
-8 GUSSET .072 AL. ALLOY SH.
-9 SKIN PLATE .025 AL. ALLOY SH.
-10 COVER PLATE .072 AL. ALLOY SHEET
-22 SPLICE PLATE .064 AL. ALLOY SH.
-23 SPLICE PLATE .050 AL. ALLOY SH. (2 REQ.)
THESE 4 NUTS TO BE RIVETED BEFORE PLACING -8 & -9. ALL OTHERS TO BE RIVETED THRU -8 & -9.
CUTOUT THRU SKIN & GUSSET
RIVET LINE LOWER FLANGE
NOTE -9 STOPS HERE
STITCH PIN - 1/16 DIA. AL. AL. WIRE - PEEN ENDS.
NOTE: TAPE BRAID & SHE... DO NOT COVER TERMINALS
CENTER HINGE ELEVATORS
ELEV. (REF)
K 14



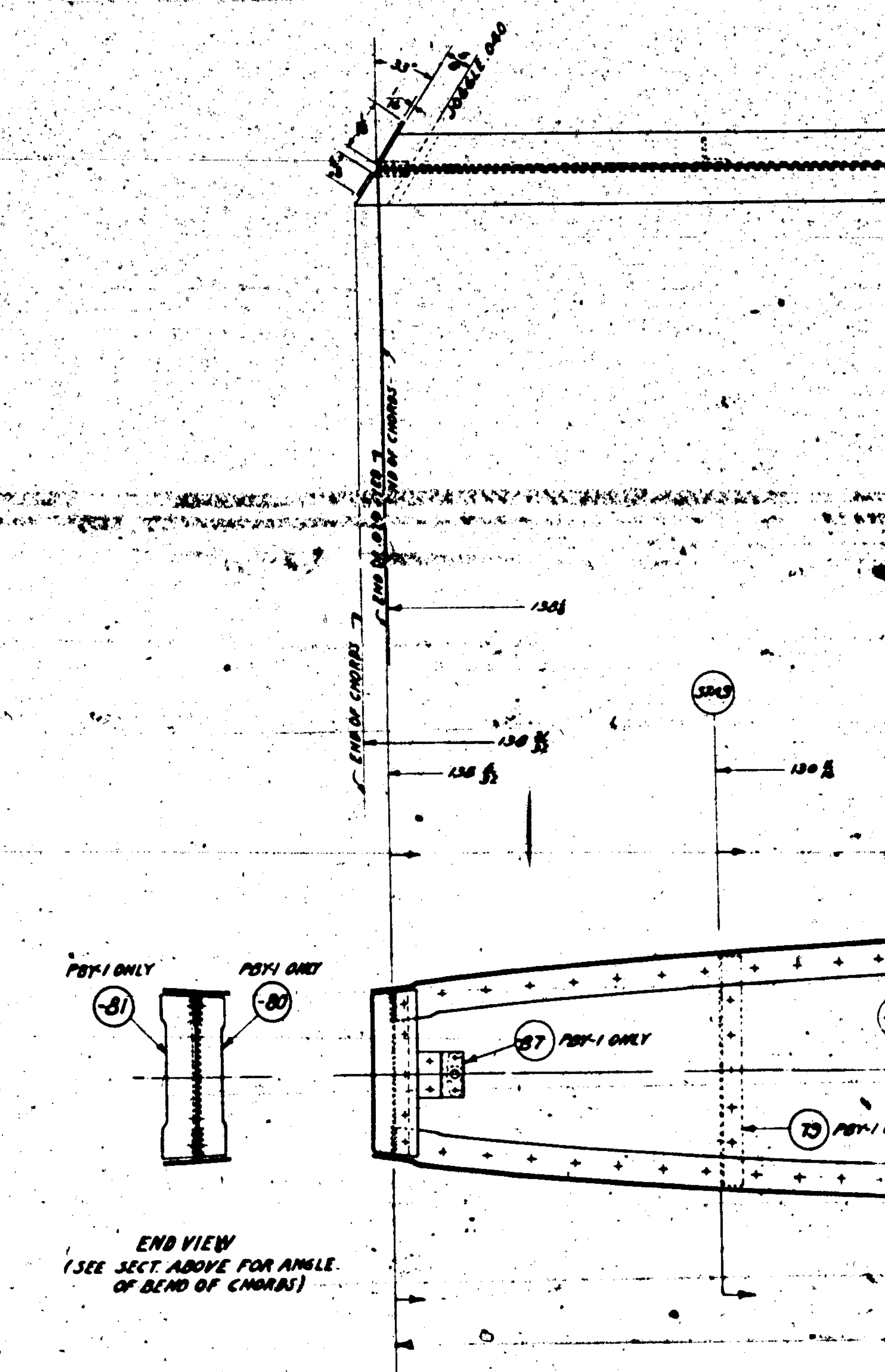
DETAIL OF -4
SPACER - SEE DETAIL MAKE FROM AL. ALLOY.
Q4305-D6
AN 442-D6 RIVETS
SPLICE ANGLE
28T1004
THIS END OF BONDING UNDER ELEV. HORN BOLT
ELEV. (REF.)
CENTER HINGE ELEVATORS
NOTE: TAPE BRAID & SHELLAC DO NOT COVER TERMINALS
BONDING DETAILS
LOWER FACE OF WEB SH. SEE 28T1004 (REF.)
RUDDER HINGE
INTERSECTION
HORIZONTAL REFERENCE LINE
SEE DETAIL A
SEE DETAIL B
STABILIZER
REFERENCE LINE (STABILIZER)
REFERENCE LINE (FIN)
TO DECK LINE (REF.)
DETAIL OF -5
ALL AL ALLOY SHEET SPEC 47A10 (CONDITION T) ALLOY 24T EXCEPT AS NOTED
ALL AL ALLOY EXTRUSIONS SPEC (CONDITION T) ALLOY 24T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION A MATERIAL PER SPEC SR53
RIVETS AL ALLOY EXCEPT AS NOTED
K 14
CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF
ASSEMBLY - STABILIZER & FIN
K 28T1002



AN 442-D6
(REF.)
AN 442-D5
AN442-D6
(REF)
(REF.)
AN442 D5
(REF)
FRONT
REAR
M
M
FRONT
REAR
AN442-D6
9 7/8
FRONT
REAR
CUT OUT
FRONT
REAR
DETAIL R-R.
SCALE 12"-1'-0"

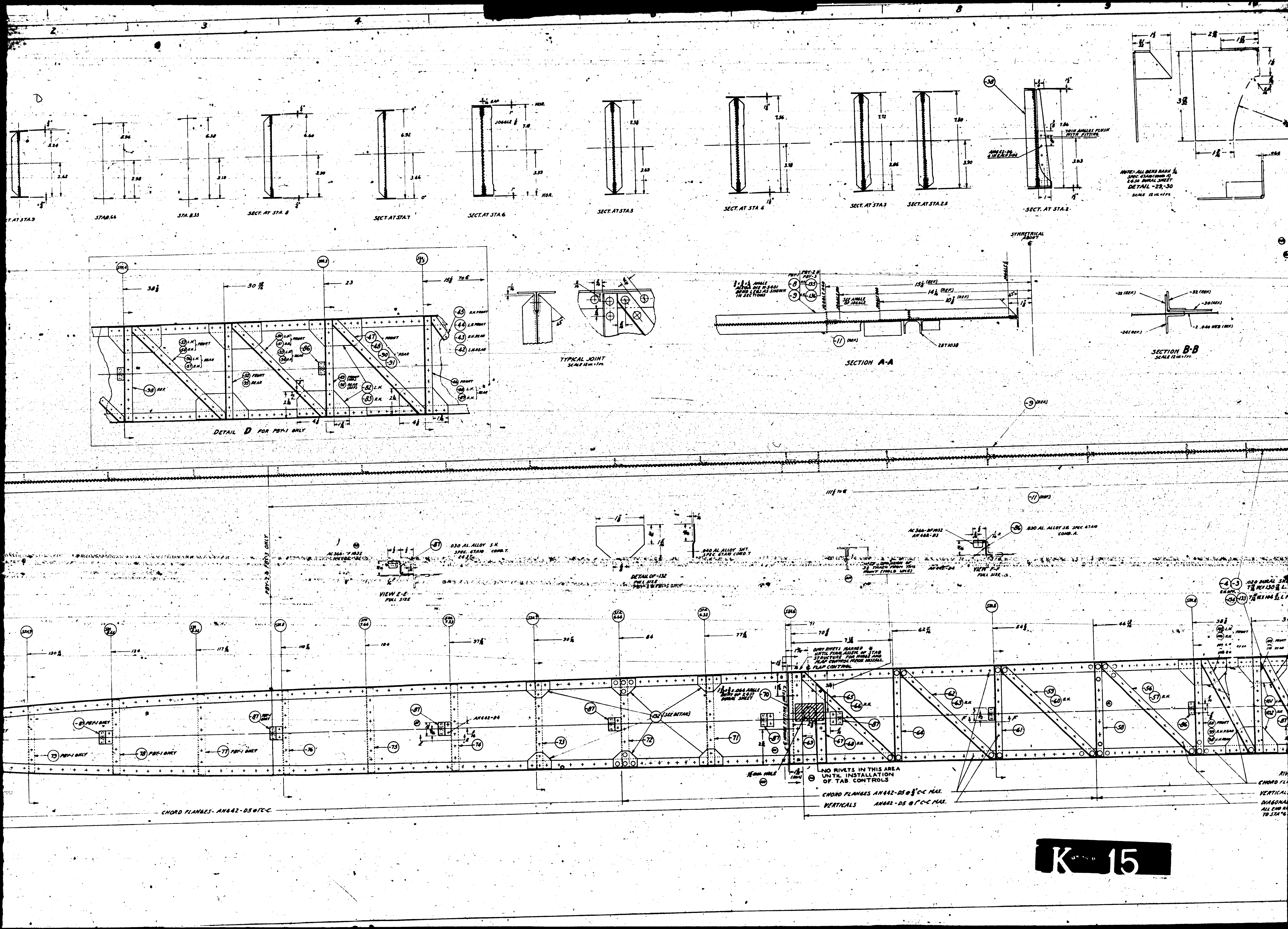


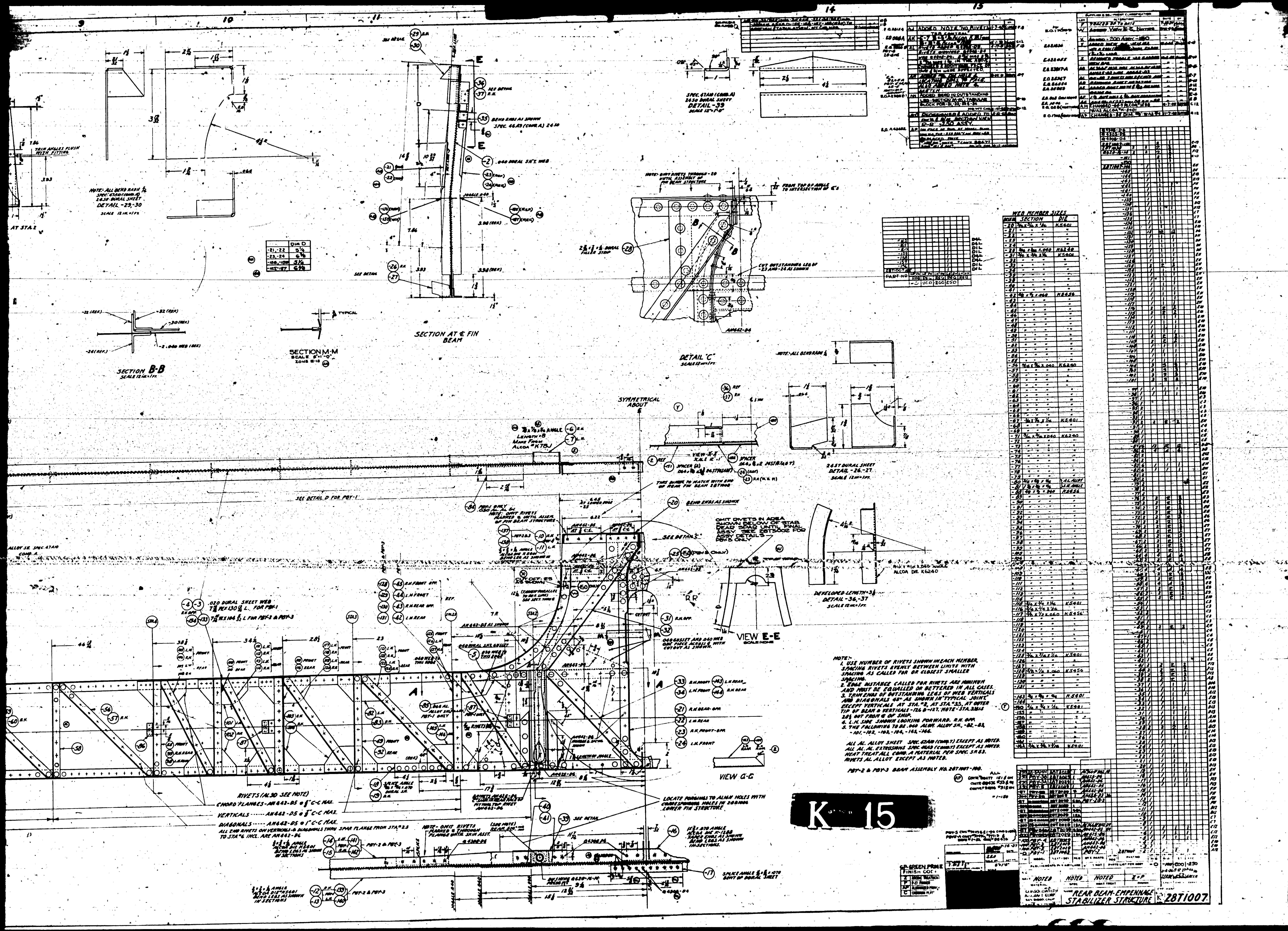
SECT. AT STA. 3.33
BEFORE CUTTING & JOGGLING
SECT. AT STA. 3



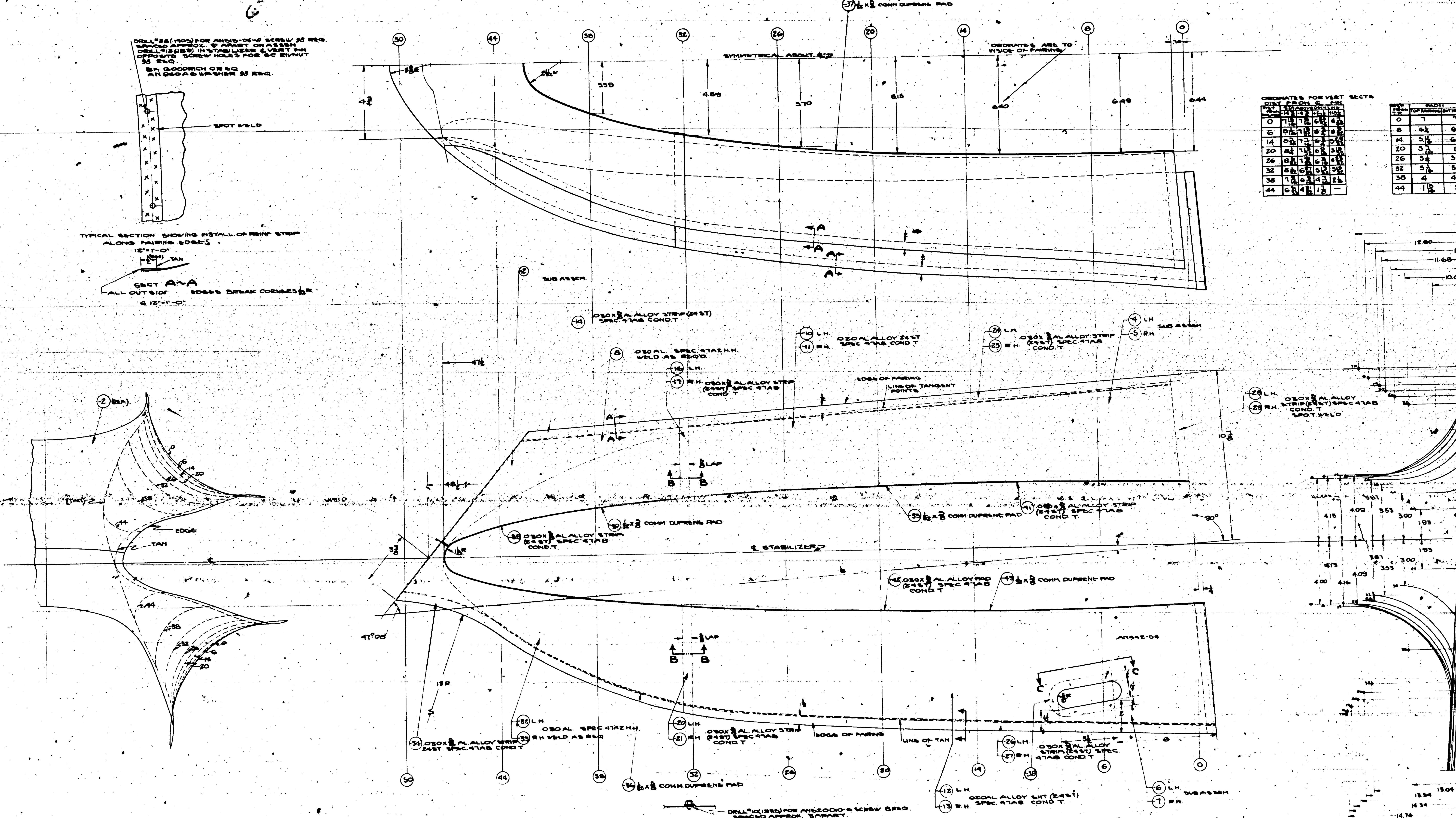
END VIEW
(SEE SECT. ABOVE FOR ANGLE OF BEND OF CHORDS)

K 15

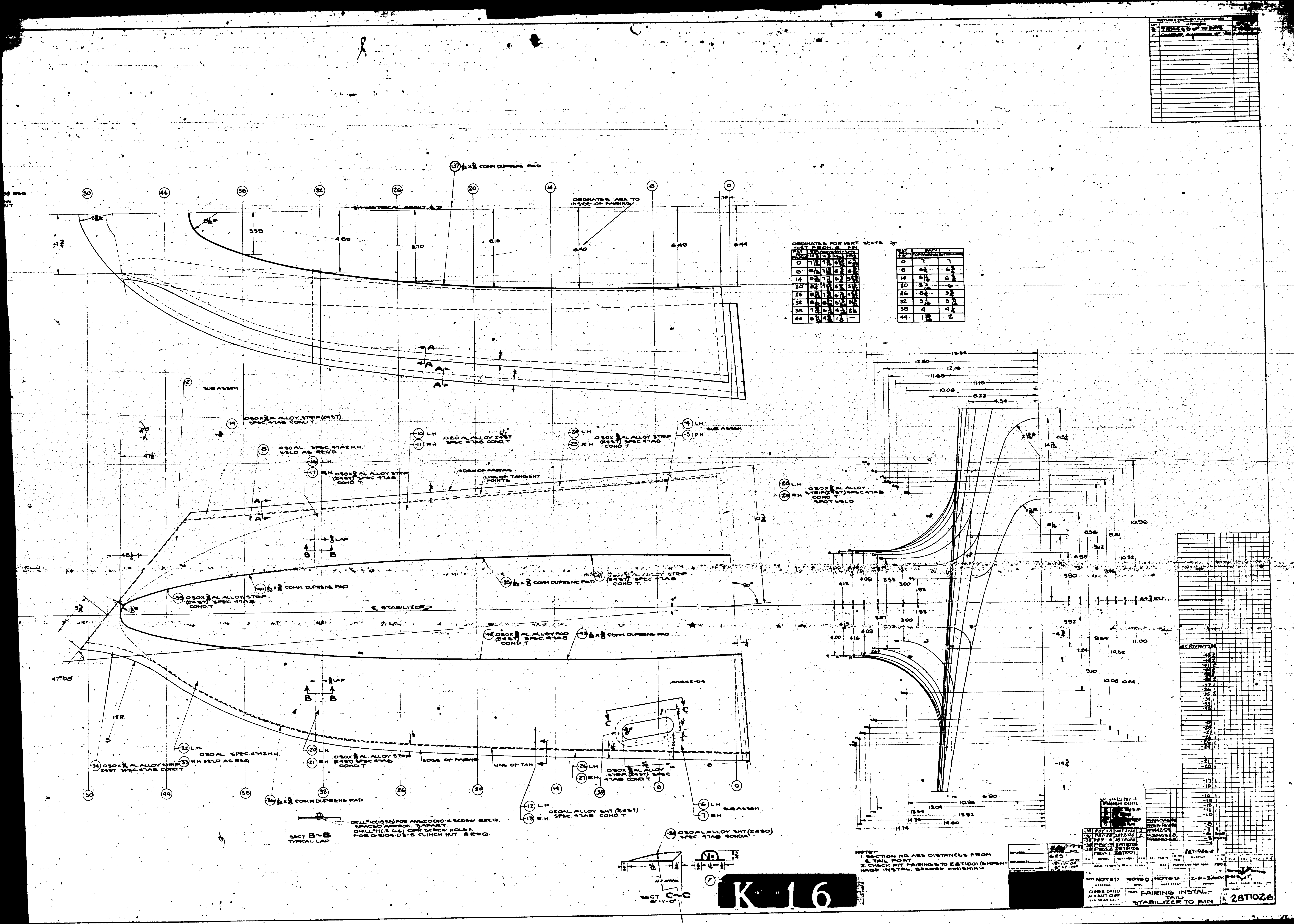

SECT. AT STA. 8
SECT. AT STA. 7
SECT. AT STA. 6
SECT. AT STA. 5
SECT. AT STA. 4
SECT. AT STA. 3
SECT. AT STA. 2.5
SECT. AT STA. 2
DETAIL -29,-30
SYMMETRICAL ABOUT
TYPICAL JOINT
SECTION A-A
SECTION B-B
DETAIL D FOR PBY-1 ONLY
VIEW E-E FULL SIZE
DETAIL OF -132
VIEW F-F FULL SIZE
NO RIVETS IN THIS AREA UNTIL INSTALLATION OF TAB CONTROLS
CHORD FLANGES AN442-DS
VERTICALS
CHORD FLANGES- AN442-DS
PBY-2 & PBY-3 ONLY
K 15

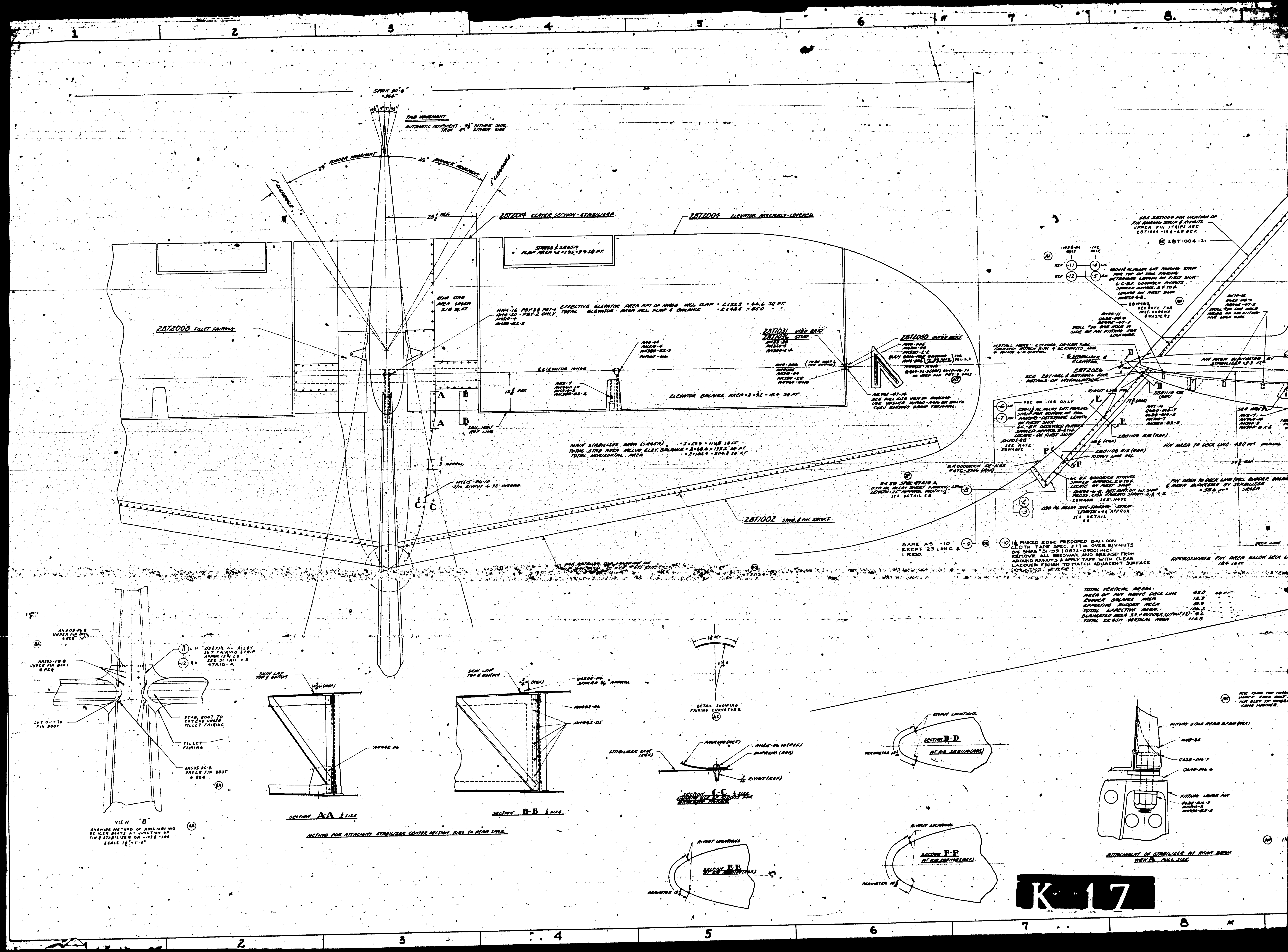


SECTION AT ℄ FIN BEAM
SECTION B-B
SECTION M-M
DETAIL "C"
DETAIL-33
DETAIL-26-27
DETAIL-36,37
DETAIL-29,30
VIEW E-E
VIEW G-G
VIEW X-X
WEB MEMBER SIZES
SYMMETRICAL ABOUT ℄
RIVETS (ALSO SEE NOTE)
CHORD FLANGES - AN442-D5 @ 5/8" C-C MAX.
VERTICALS - AN442-D5 @ 3/4" C-C MAX.
DIAGONALS - AN442-D5 @ 1" C-C MAX.
LOCATE FORGINGS TO ALIGN HOLES WITH CORRESPONDING HOLES IN 28B1001 LOWER FIN STRUCTURE
K-15
REAR BEAM-EMPENNAGE STABILIZER STRUCTURE
28T1007

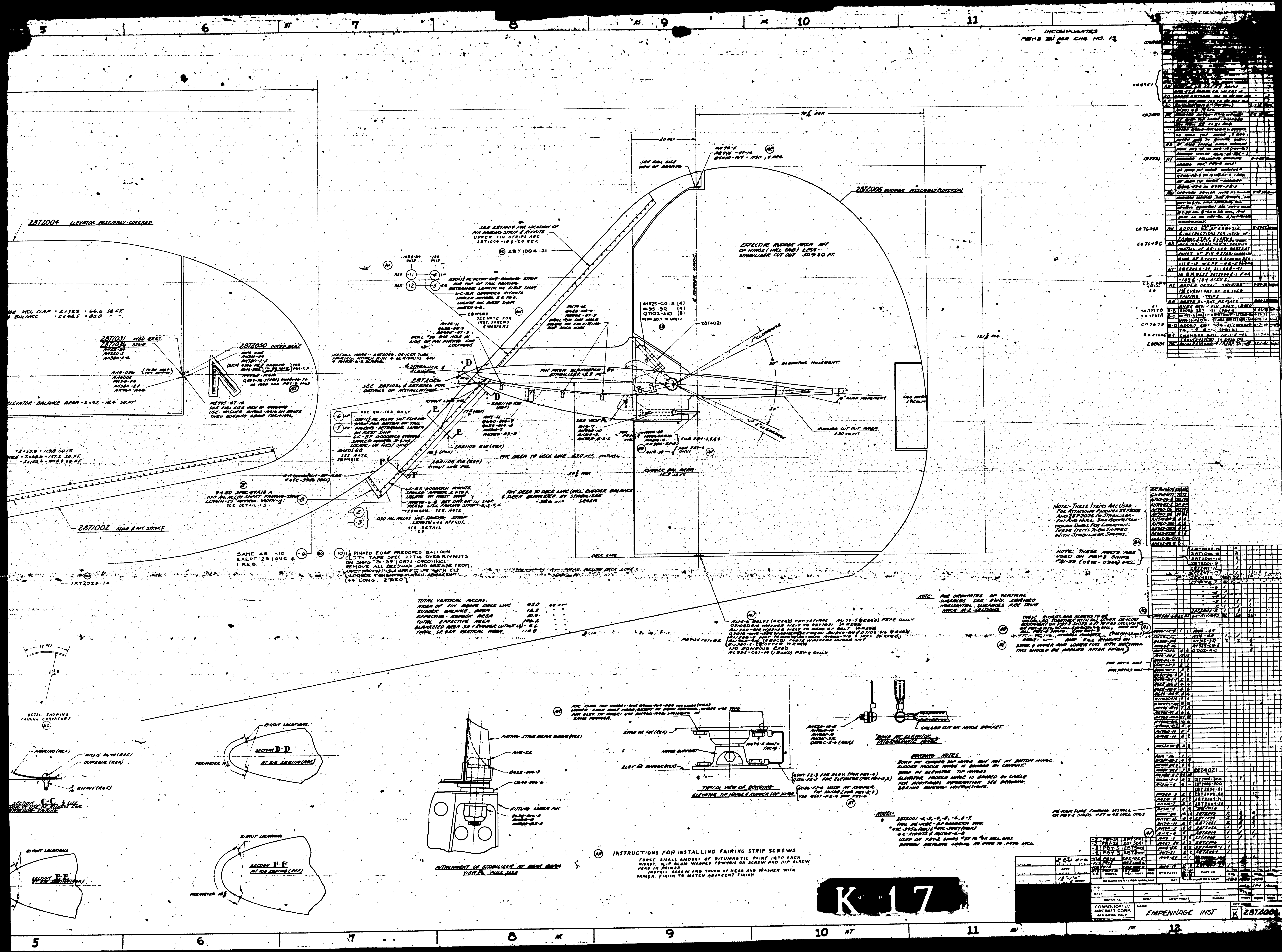

TYPICAL SECTION SHOWING INSTALL. OF REINF STRIP ALONG FAIRING EDGES
SPOT WELD
SECT A~A
ALL OUTSIDE EDGES BREAK CORNERS
SYMMETRICAL ABOUT
ORDINATES ARE TO INSIDE OF FAIRING
COMM DUPRENE PAD
ORDINATES FOR VERT. SECTS
SUB ASSEM.
.030 X AL ALLOY STRIP (24 ST) SPEC 47AB COND T
.020 AL ALLOY 24ST SPEC 47AB COND T
.050 AL SPEC 47A2 H.H. WELD AS REQD
EDGE OF FAIRING
LINE OF TANGENT POINTS
EDGE
TAN
℄ STABILIZER
LAP
AN442-04
LINE OF TAN
.020 AL ALLOY SHT (24ST) SPEC 47AB COND T
SECT B~B TYPICAL LAP
.050 AL ALLOY SHT (24SO) SPEC 47AB COND A
SECT C~C
NOTES:
1. SECTION NR ARE DIST
℄ TAIL POST
2. CHECK FIT FAIRINGS
NAGE INSTAL BEFORE

K 16

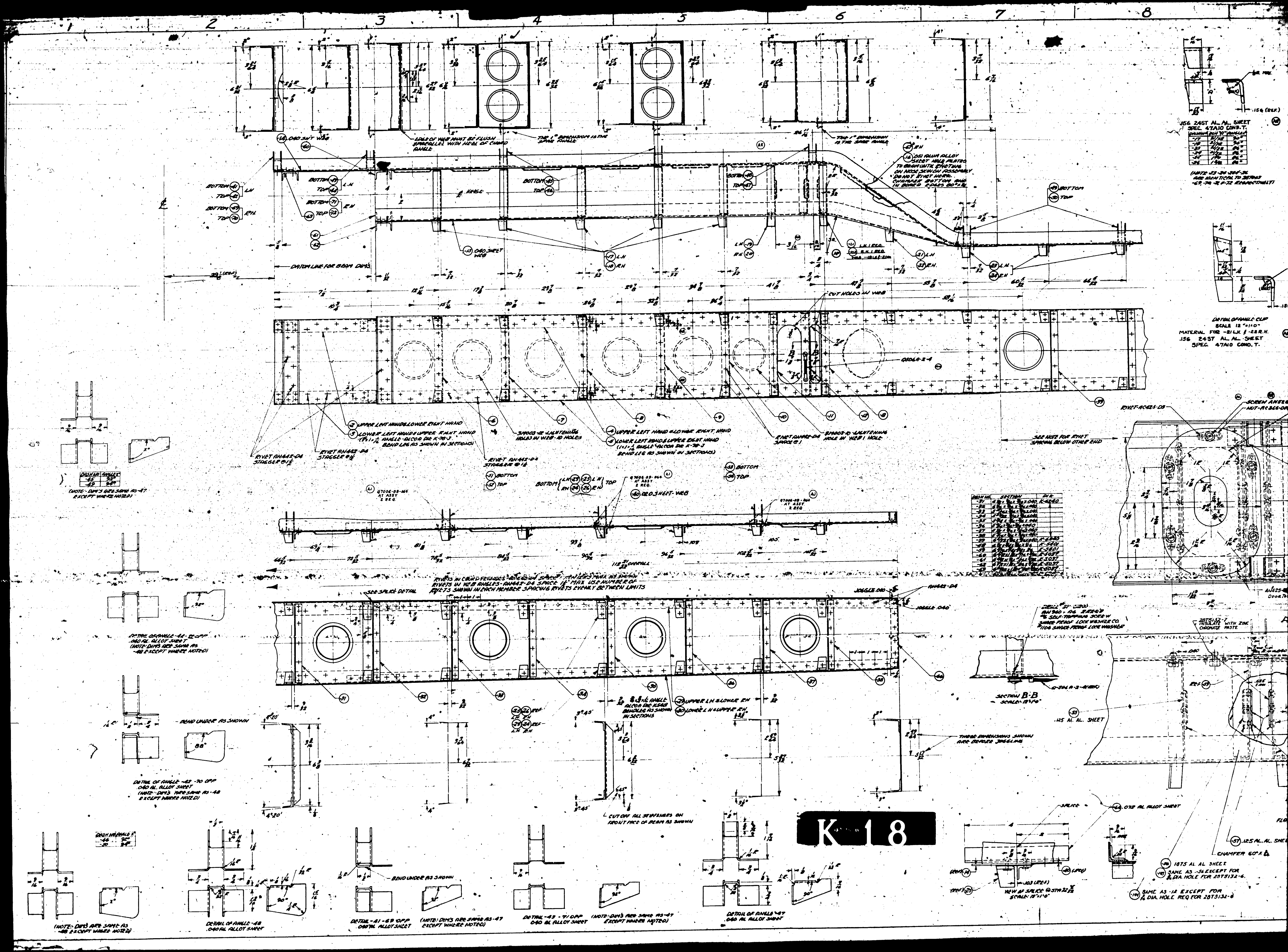

ORDINATES ARE TO INSIDE OF FAIRING
SYMMETRICAL ABOUT ℄
ORDINATES FOR VERT. SECTS.
DIST. FROM ℄ FIN
RADII
TOP FAIRING
BOTTOM FAIRING
SUB ASSEM.
.030 X ¾ AL. ALLOY STRIP (24ST) SPEC. 47AB COND. T
.030 AL. SPEC. 47A2 H.H. WELD AS REQ'D.
EDGE OF FAIRING
LINE OF TANGENT POINTS
℄ STABILIZER
COMM. DUPRENE PAD
.030 AL. ALLOY SHT (24ST) SPEC. 47AB COND. T
SPOT WELD
LINE OF TAN
SECT. B-B TYPICAL LAP
DRILL #10 (.1935) FOR AN520010-6 SCREW REQ. SPACED APPROX. 3 APART
DRILL #41 (.096) OPP. SCREW HOLES FOR Q-3104-08-5 CLINCH NUT REQ.
SECT. C-C
NOTES:
1. SECTION NR. ARE DISTANCES FROM ℄ TAIL POST
2. CHECK FIT FAIRINGS TO 28T1001 (EMPENNAGE INSTAL.) BEFORE FINISHING
FINISH CODE
PBY-5A 28T2026
PBY-5B 28T2026
PBY-4 28T2026
PBY-3 28T2026
PBY-2 28T2026
PBY-1 28T1001
AN442-D4
28T1026-5
MODEL
NEXT ASSY
REQ
PART NO.
PARTS LIST PER ASSY
MATERIAL
SPEC
HEAT TREAT
FINISH
NOTED
NOTED
NOTED
Z-P-Z
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.
NAME FAIRING INSTAL.-TAIL-STABILIZER TO FIN
K 28T1026
K 16



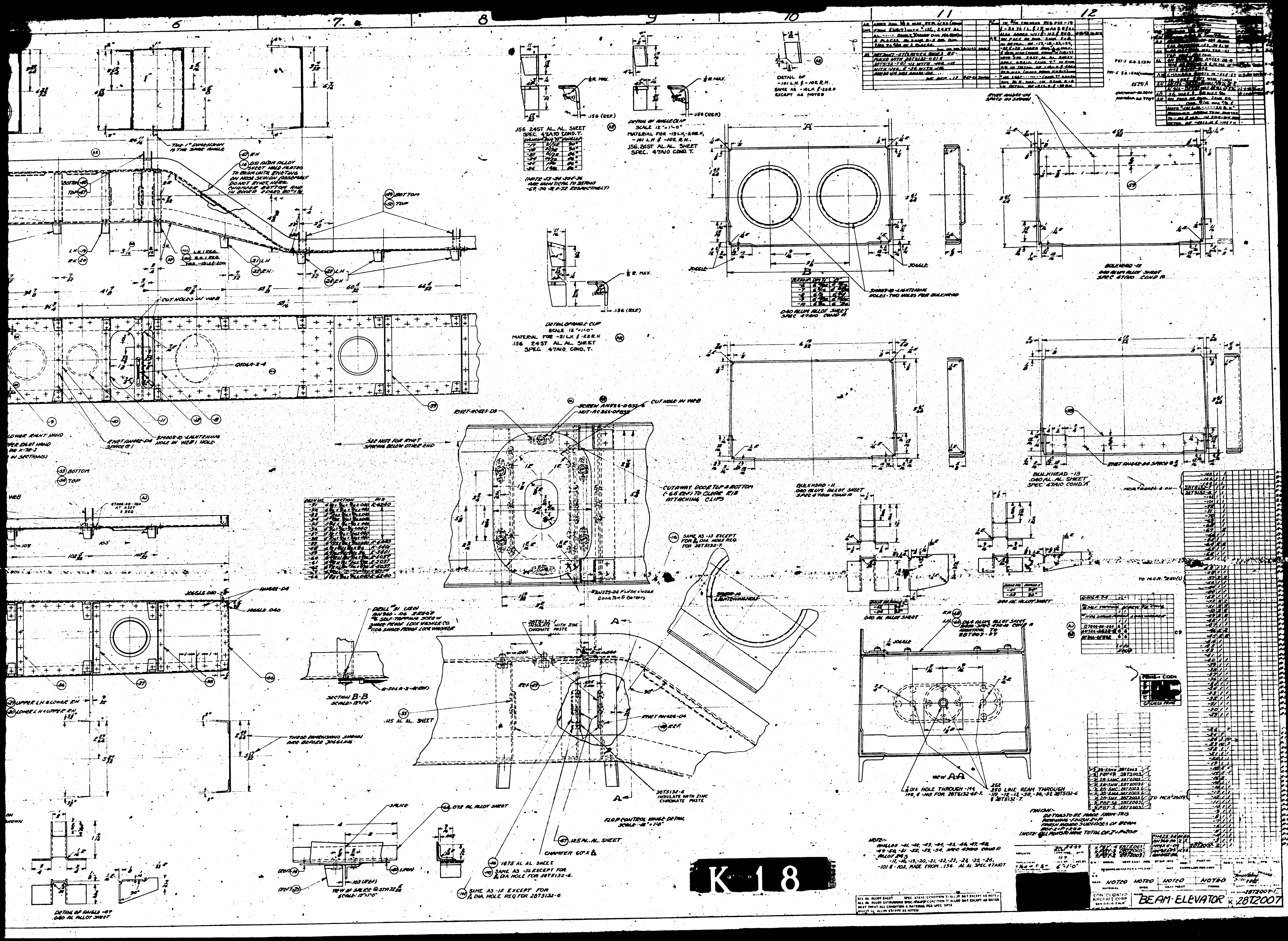
28T2004 CENTER SECTION - STABILIZER
28T2004 ELEVATOR ASSEMBLY - COVERED
28T2008 FILLET FAIRING
28T2050 OUTBD BRKT
28T1002 STAB. & FIN STRUCT.
ELEVATOR BALANCE AREA - 2 x 32 = 18.4 SQ. FT.
TAB MOVEMENT
29° RUDDER MOVEMENT
SECTION AA ½ SIZE
SECTION B-B ½ SIZE
METHOD FOR ATTACHING STABILIZER CENTER SECTION RIBS TO REAR SPAR
VIEW "B"
SECTION D-D
SECTION F-F
SECTION E-E
SECTION C-C
DETAIL SHOWING FAIRING CURVATURE
ATTACHMENT OF STABILIZER AT REAR BEAM VIEW A FULL SIZE
TOTAL VERTICAL AREAS:
SEE 28T1009 FOR LOCATION OF FIN FAIRING STRIP & RIVNUTS
K 17



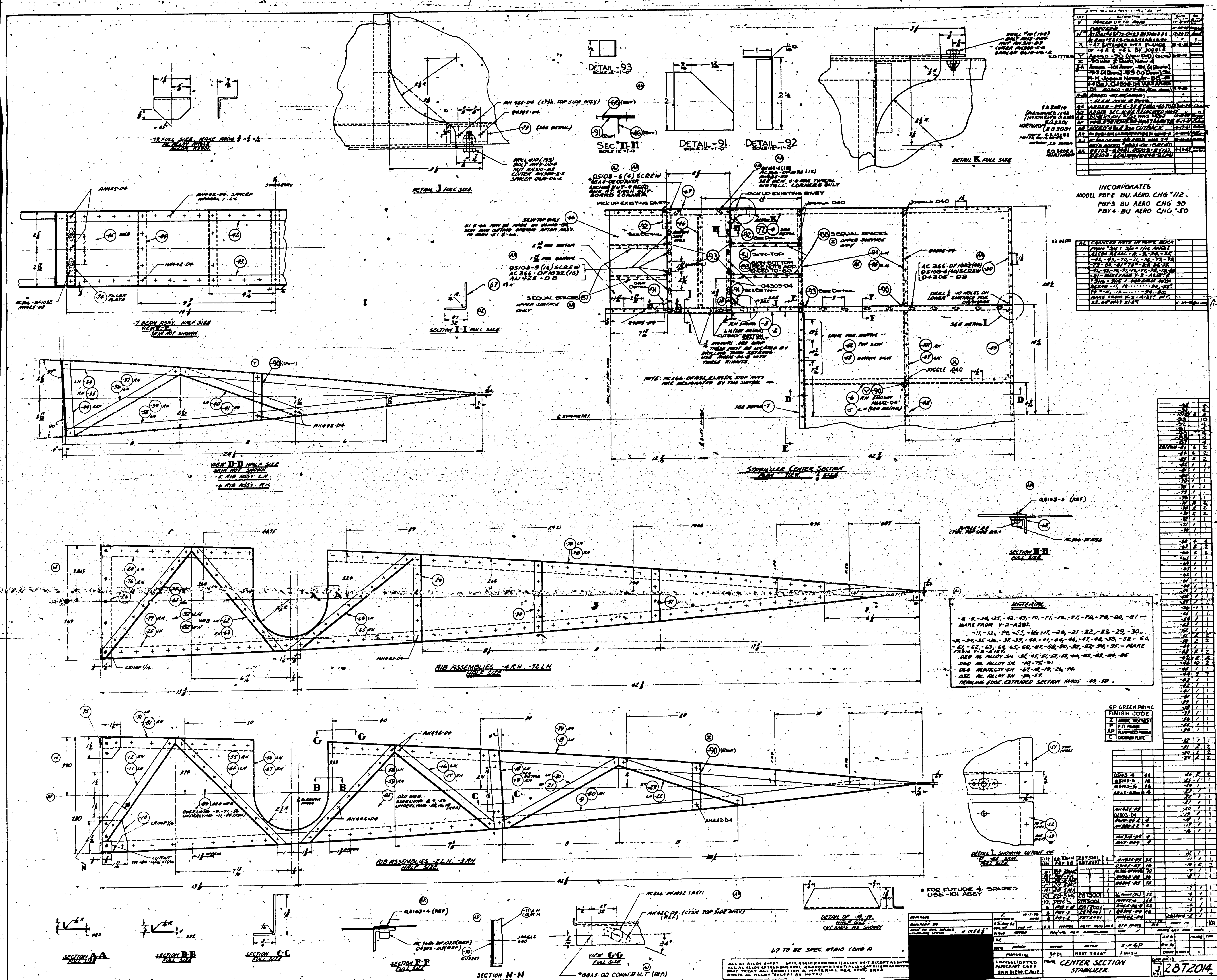
28T2004 ELEVATOR ASSEMBLY-COVERED
28T2006 RUDDER ASSEMBLY (COVERED)
EFFECTIVE RUDDER AREA AFT OF HINGE (INCL TAB) LESS STABILIZER CUT OUT 52.9 SQ. FT.
30° ELEVATOR MOVEMENT
28T4021
28T1002 STAB. & FIN STRUCT.
SAME AS -10 EXEPT 23 LONG & 1 REQ
1½ PINKED EDGE PREDOPED BALLOON CLOTH TAPE
REMOVE ALL BEESWAX AND GREASE FROM
TOTAL VERTICAL AREAS:
SECTION D-D
SECTION F-F
SECTION C-C
DETAIL SHOWING FAIRING CURVATURE
TYPICAL VIEW OF BONDING
BONDING NOTES
ATTACHMENT OF STABILIZER AT REAR BEAM VIEW A FULL SIZE
INSTRUCTIONS FOR INSTALLING FAIRING STRIP SCREWS
K 17
CONSOLIDATED AIRCRAFT CORP SAN DIEGO, CALIF
EMPENNAGE INST

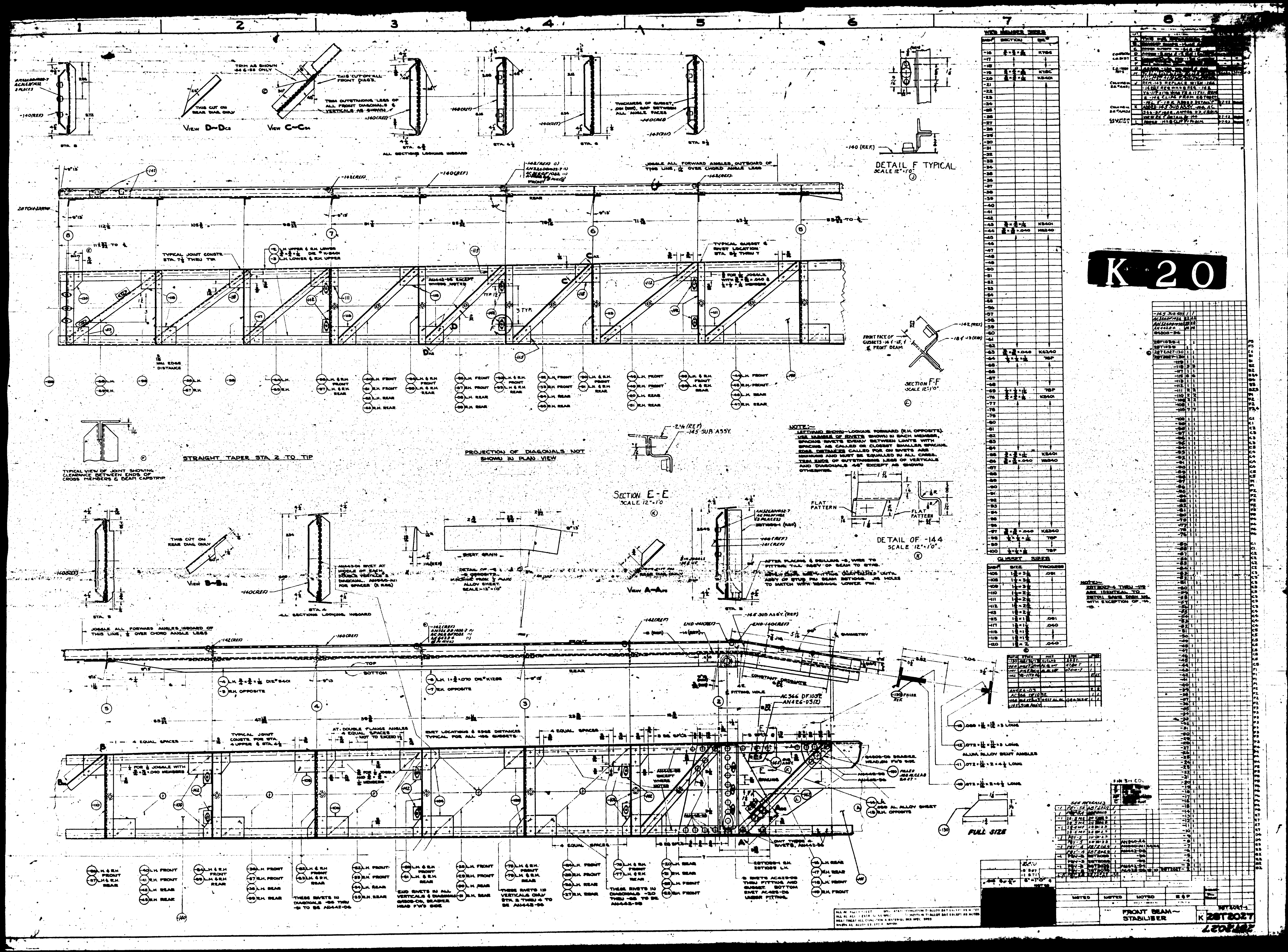


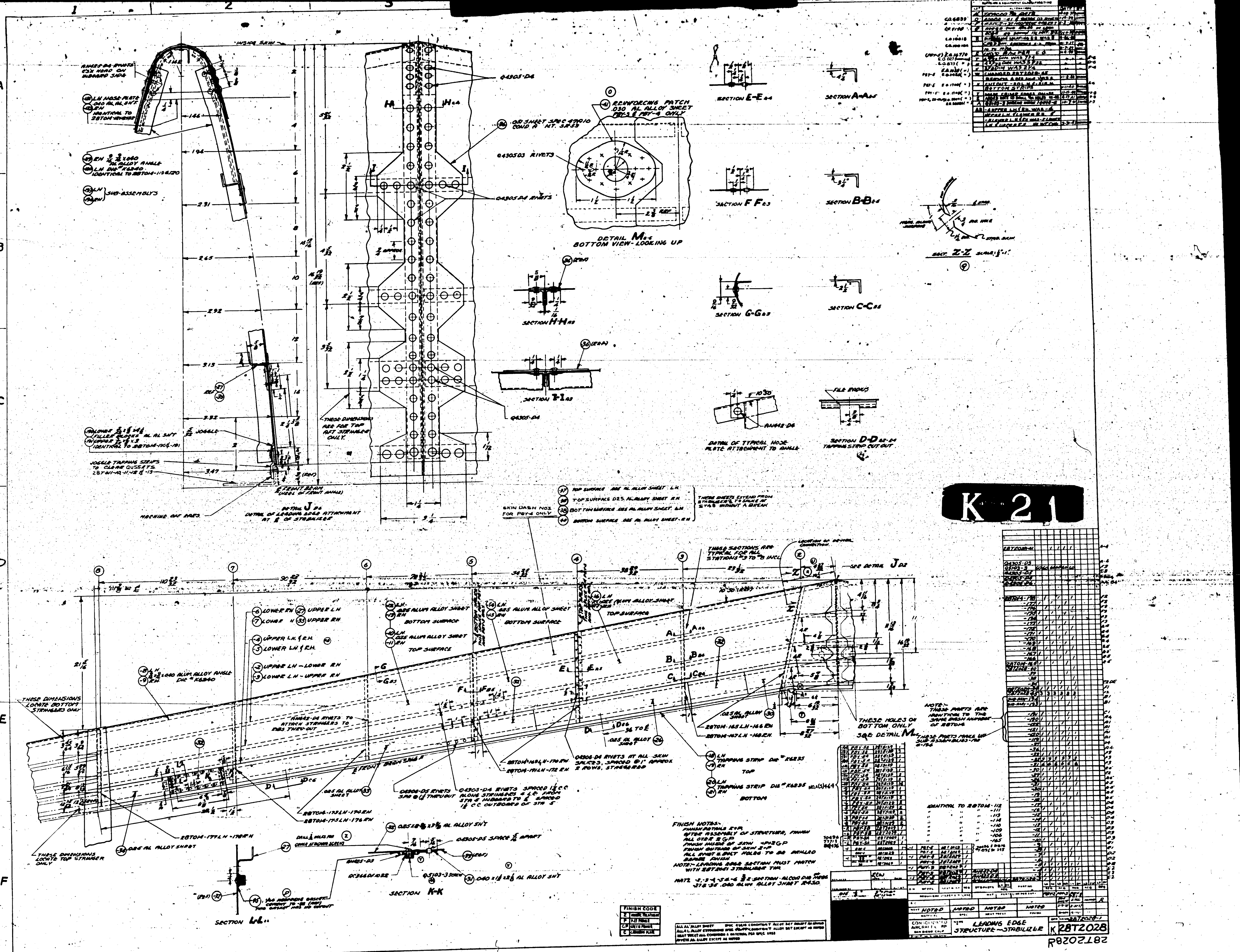
DATUM LINE FOR BEAM DIM'S
CUT HOLES IN WEB
.156 24ST AL. AL. SHEET
SPEC. 47A10 COND. T.
DETAIL OF ANGLE CLIP
SCALE 12"=1'-0"
SEE NOTE FOR RIVET SPACING BELOW OTHER END
SECTION B-B
.125 AL. AL. SHEET
THESE DIMENSIONS SHOWN ARE BEFORE JOGGLING
CUT OFF ALL STIFFENERS ON FRONT FACE OF BEAM AS SHOWN
BEND UNDER AS SHOWN
CHAMFER 60° x
K 18



DETAIL OF ANGLE CLIP
SCALE 12"=1'-0"
MATERIAL FOR -21 L.H. & -22 R.H.
.156 24ST AL. AL. SHEET
SPEC. 47A10 COND. T.
CUT HOLES IN WEB
SEE NOTE FOR RIVET SPACING BELOW OTHER END
CUT HOLE IN WEB
CUTAWAY DOOR TOP & BOTTOM TO CLEAR RIB ATTACHING CLIPS
BULKHEAD -11
.040 ALUM ALLOY SHEET
BULKHEAD -12
BULKHEAD -13
.040 AL. AL. SHEET
SPEC. 47A10 COND. A
.040 ALUM ALLOY SHEET
SPEC 47A10 COND A
JOGGLE
SECTION B-B
.125 AL. AL. SHEET
FLAP CONTROL HINGE DETAIL
CHAMFER 60° x 1/8
VIEW A-A
FINISH:
THESE DIMENSIONS SHOWN ARE BEFORE JOGGLING
DETAIL OF ANGLE -47
.040 AL ALLOY SHEET
VIEW OF SPLICE
NOTE:
K 18
BEAM-ELEVATOR
28T2007
CONSOLIDATED AIRCRAFT CORP


INCORPORATES
MODEL PBY-2 BU. AERO. CHG 112
PBY-3 BU AERO CHG 90
PBY-4 BU AERO CHG 50
DETAIL-93
DETAIL-91
DETAIL-92
STABILIZER CENTER SECTION
RIB ASSEMBLIES
MATERIAL
FINISH CODE
SECTION A-A
SECTION B-B
SECTION C-C
SECTION F-F
SECTION N-N HALF SIZE
VIEW G-G FULL SIZE
CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF
CENTER SECTION STABILIZER
28T2014
K 19


K 20
View D-D
View C-C
DETAIL F TYPICAL
SCALE 12"=1'0"
SECTION F-F
SCALE 12"=1'0"
STRAIGHT TAPER STA 2 TO TIP
PROJECTION OF DIAGONALS NOT SHOWN IN PLAN VIEW
-145 SUB ASSY.
SECTION E-E
SCALE 12"=1'0"
DETAIL OF -144
SCALE 12"=1'0"
FLAT PATTERN
View B-B
View A-A
GUSSET SIZES
FULL SIZE
FRONT BEAM — STABILIZER
K 28T2027

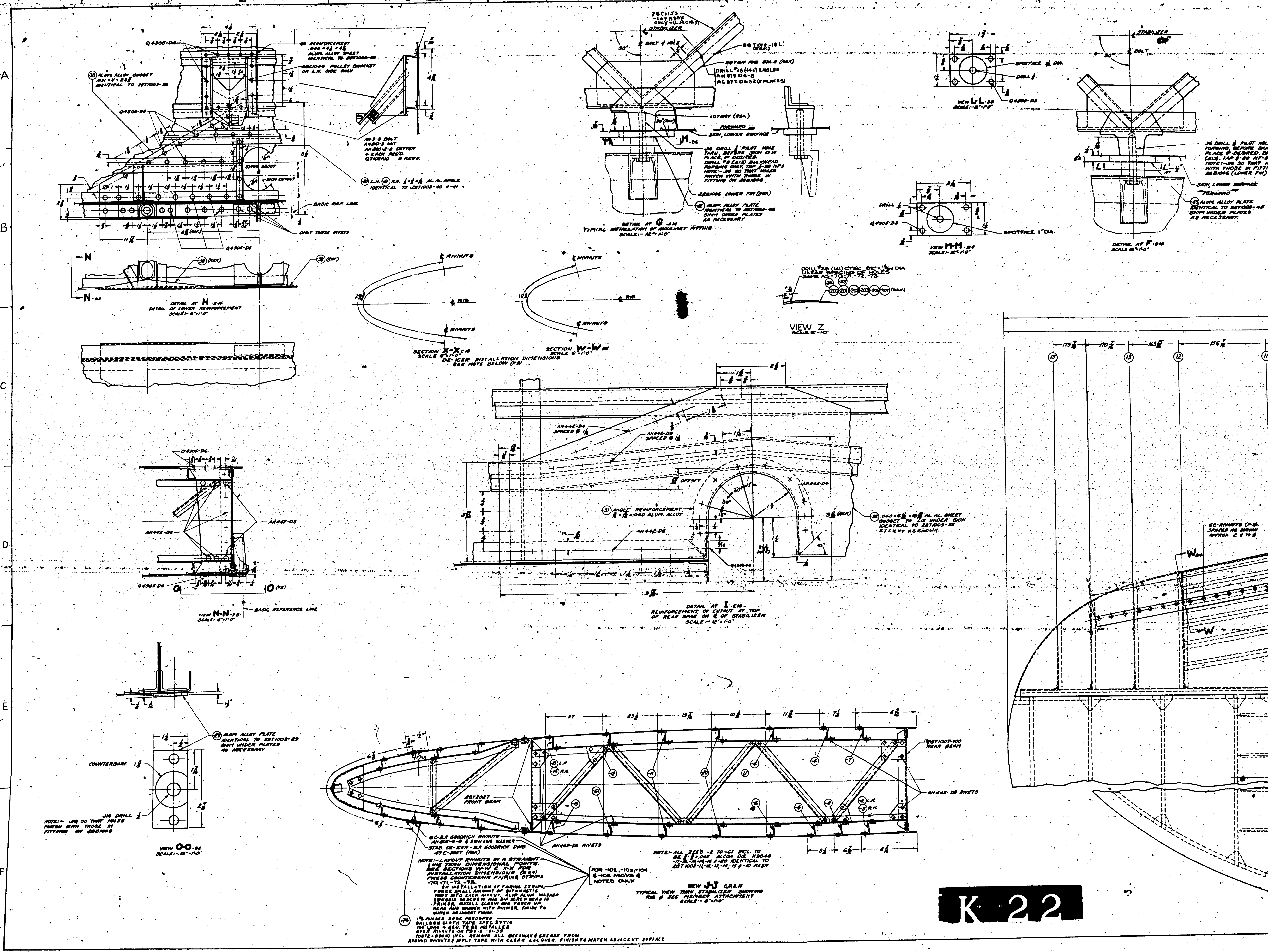


CONSOLIDATED AIRCRAFT CORP
SAN DIEGO CALIF

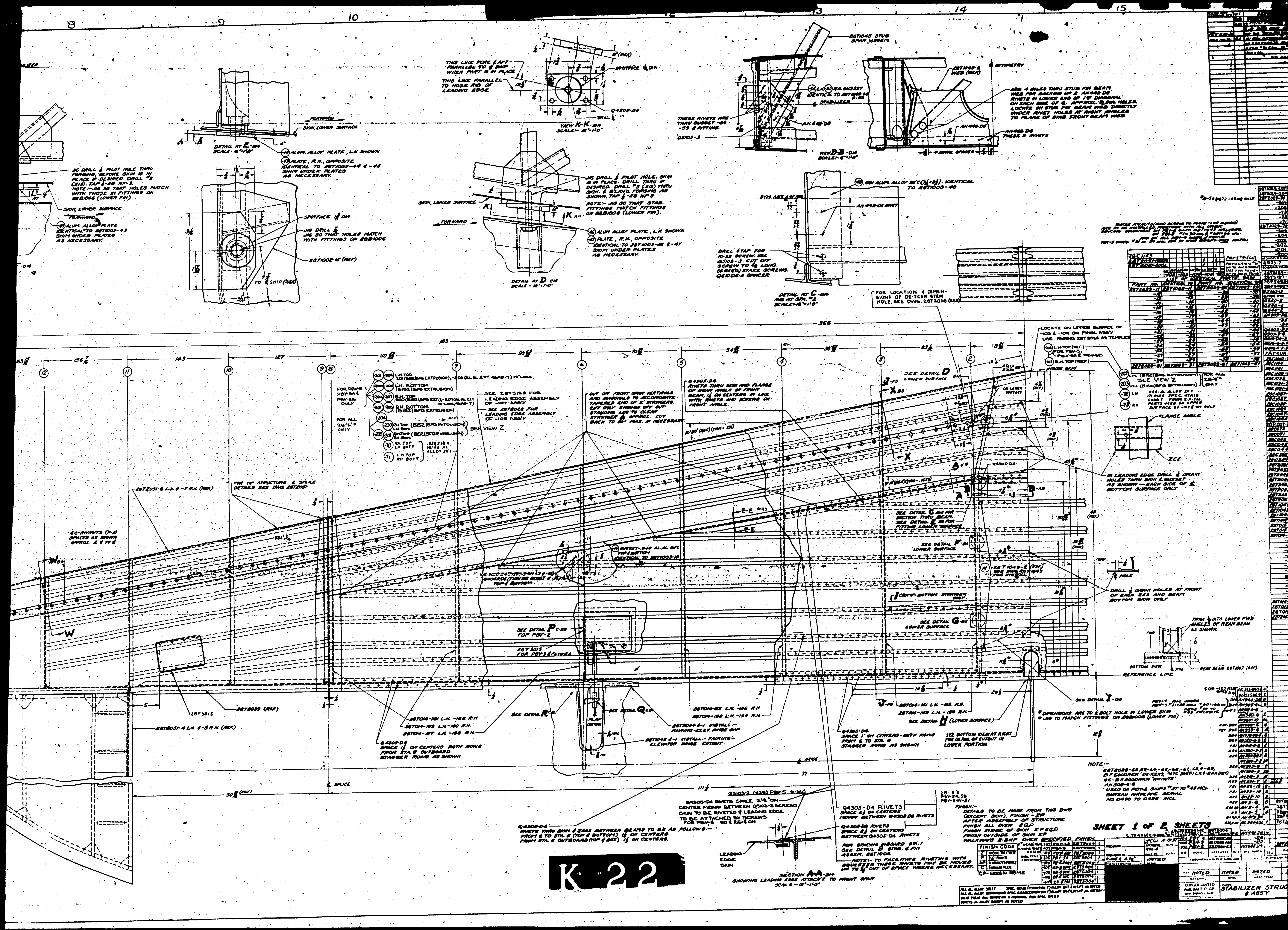
LEADING EDGE STRUCTURE—STABILIZER

K 28T2028

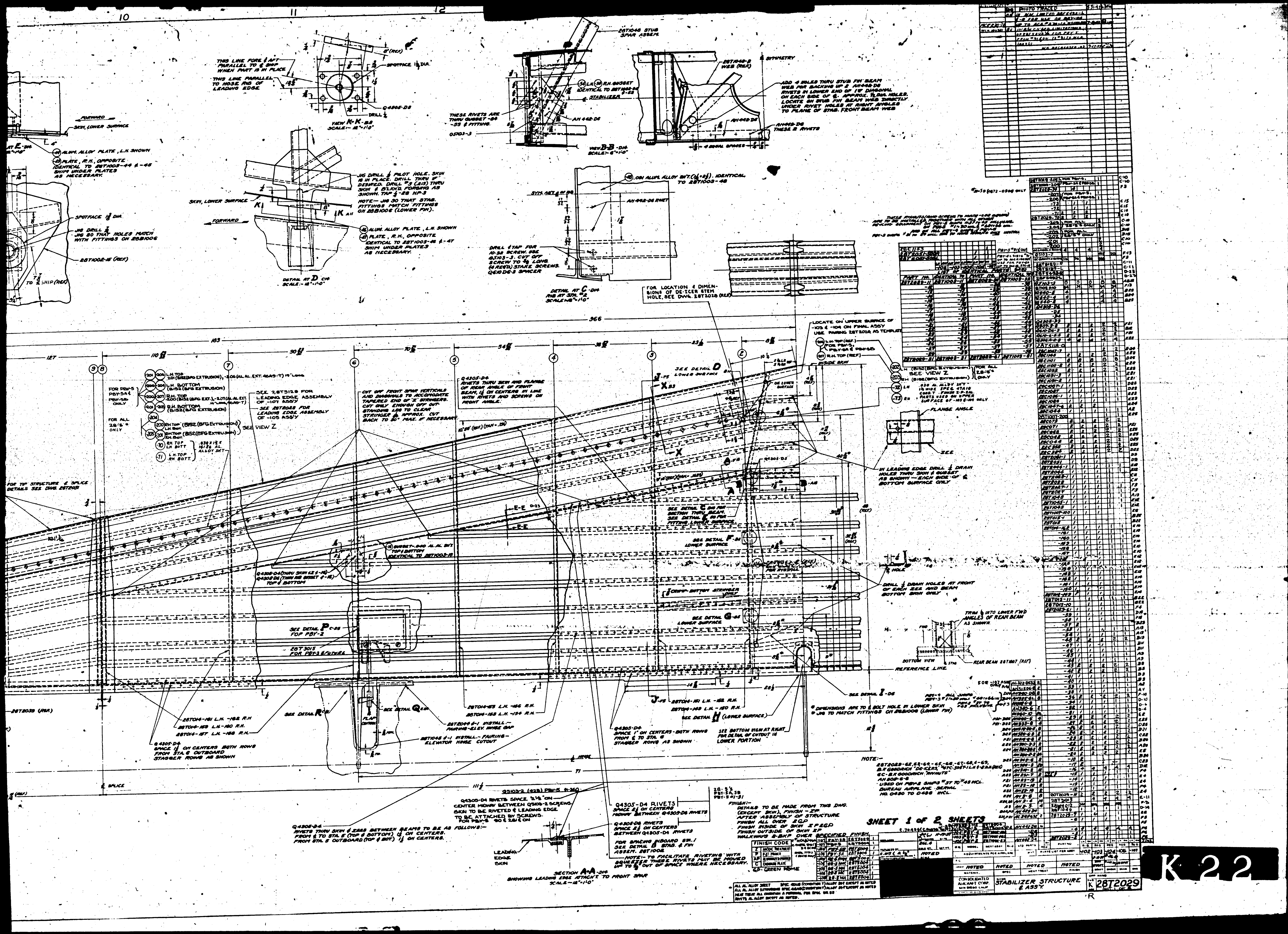
R8202T82



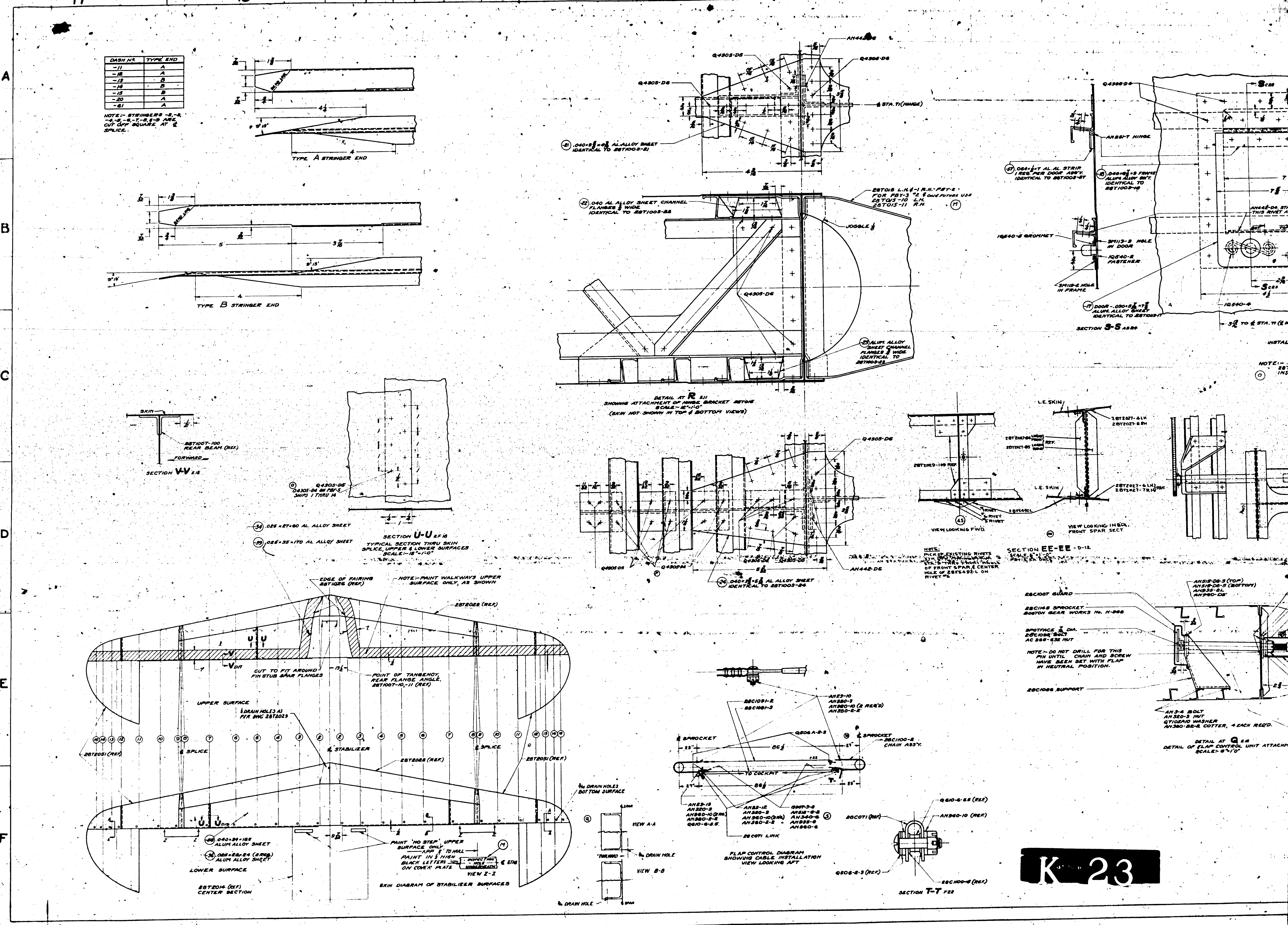
DETAIL AT G
TYPICAL INSTALLATION OF AUXILIARY FITTING
VIEW L-L
VIEW M-M
DETAIL AT F
DETAIL AT H
DETAIL OF LOWER REINFORCEMENT
SECTION X-X
SECTION W-W
DE-ICER INSTALLATION DIMENSIONS
VIEW Z
VIEW N-N
BASIC REFERENCE LINE
REINFORCEMENT OF CUTOUT AT TOP OF REAR SPAR ON ℄ OF STABILIZER
VIEW O-O
FRONT BEAM
REAR BEAM
AN442-D6 RIVETS
VIEW J-J
TYPICAL VIEW THRU STABILIZER SHOWING RIB & ZEE MEMBER ATTACHMENT
K 22



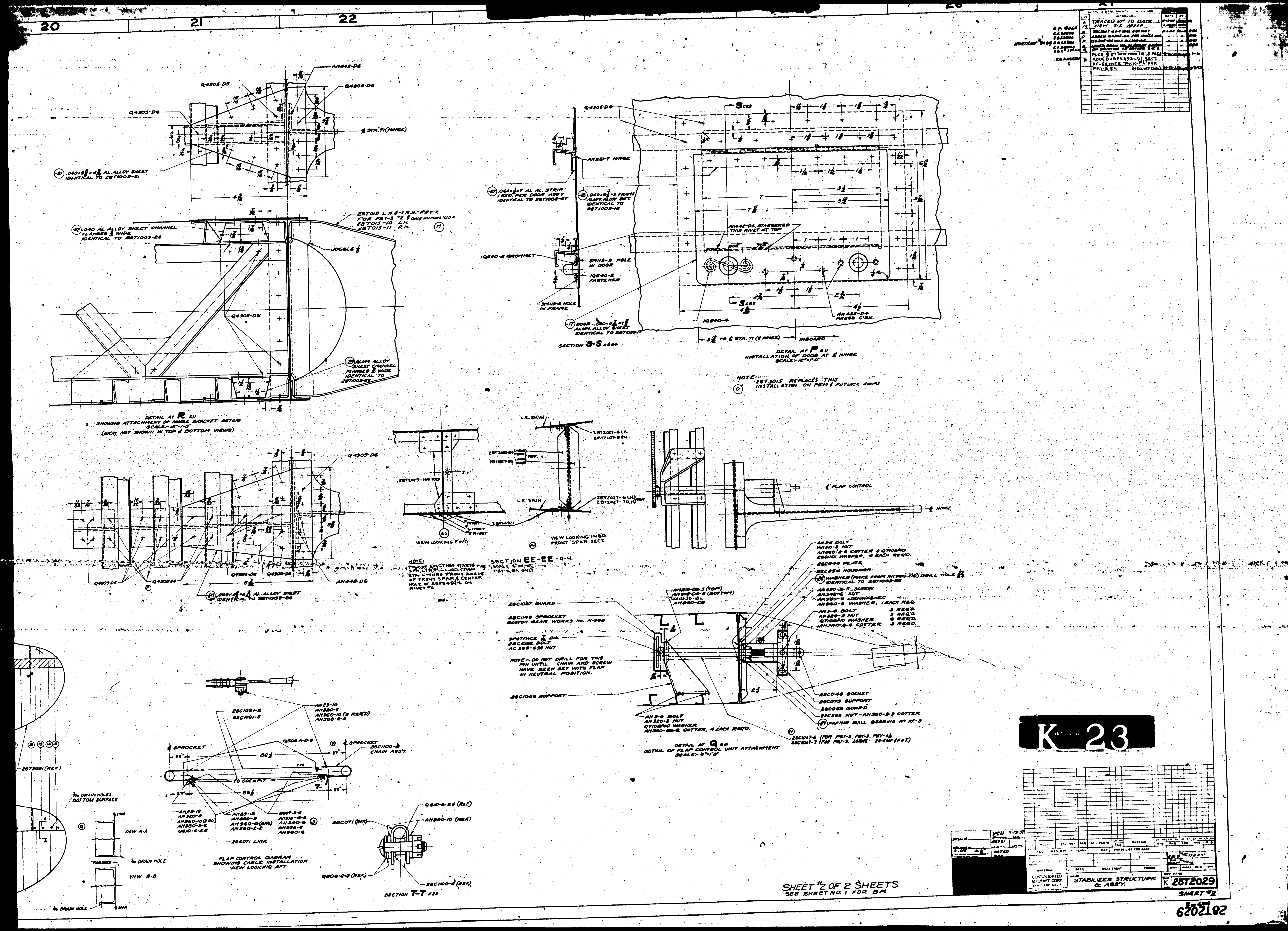
DETAIL AT E
VIEW K-K
DETAIL AT D
VIEW B-B
DETAIL AT C
SEE VIEW Z
SEE DETAIL D
SEE DETAIL P
SEE DETAIL R
SEE DETAIL Q
SEE DETAIL H (LOWER SURFACE)
SEE DETAIL G
SEE DETAIL F
REFERENCE LINE
HINGE
SPLICE
FORWARD
SKIN, LOWER SURFACE
SPOTFACE
NOTE:-
FINISH:-
FINISH CODE
SECTION A-A
SHEET 1 OF 2 SHEETS
STABILIZER STRUC & ASS'Y
CONSOLIDATED
966
183
143
127
71
K 22



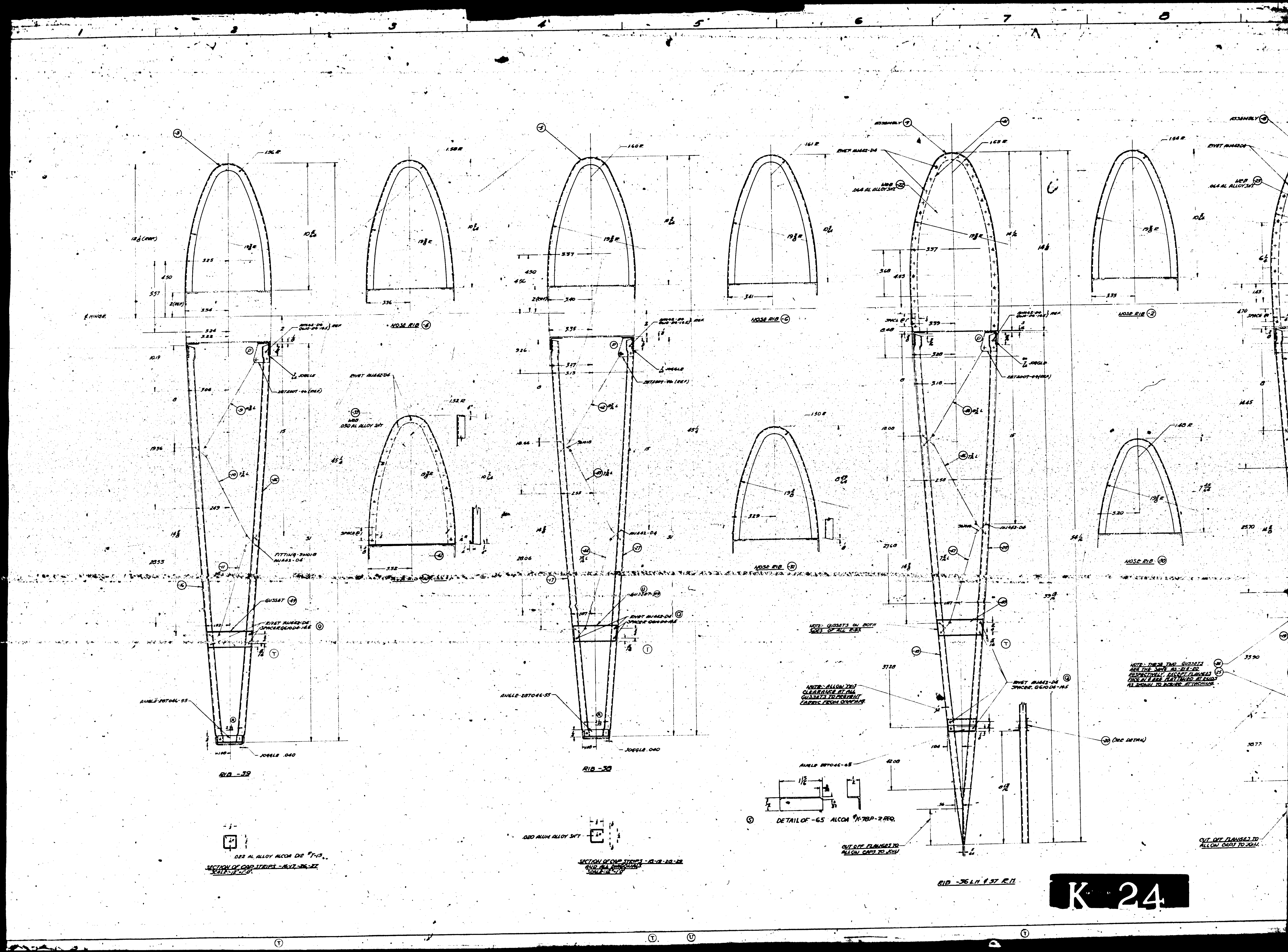
SHEET 1 OF 2 SHEETS
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF
STABILIZER STRUCTURE & ASS'Y.
K 28T2029
NOTED
MATERIAL
SPEC
HEAT TREAT
FINISH
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY
VIEW K-K
VIEW B-B
DETAIL AT D
DETAIL AT C
SECTION A-A SHOWING LEADING EDGE ATTACH'T TO FRONT SPAR
REFERENCE LINE
BOTTOM VIEW
FLANGE ANGLE
SKIN, LOWER SURFACE
FORWARD
Q4305-D4 RIVETS
NOTE:-
B.F. GOODRICH "DE-ICERS"
AN 508-6-8
USED ON PBY-2 SHIPS #37 TO #49 INCL.
BUREAU AIRPLANE SERIAL NO. 0490 TO 0496 INCL.
FINISH CODE
K22



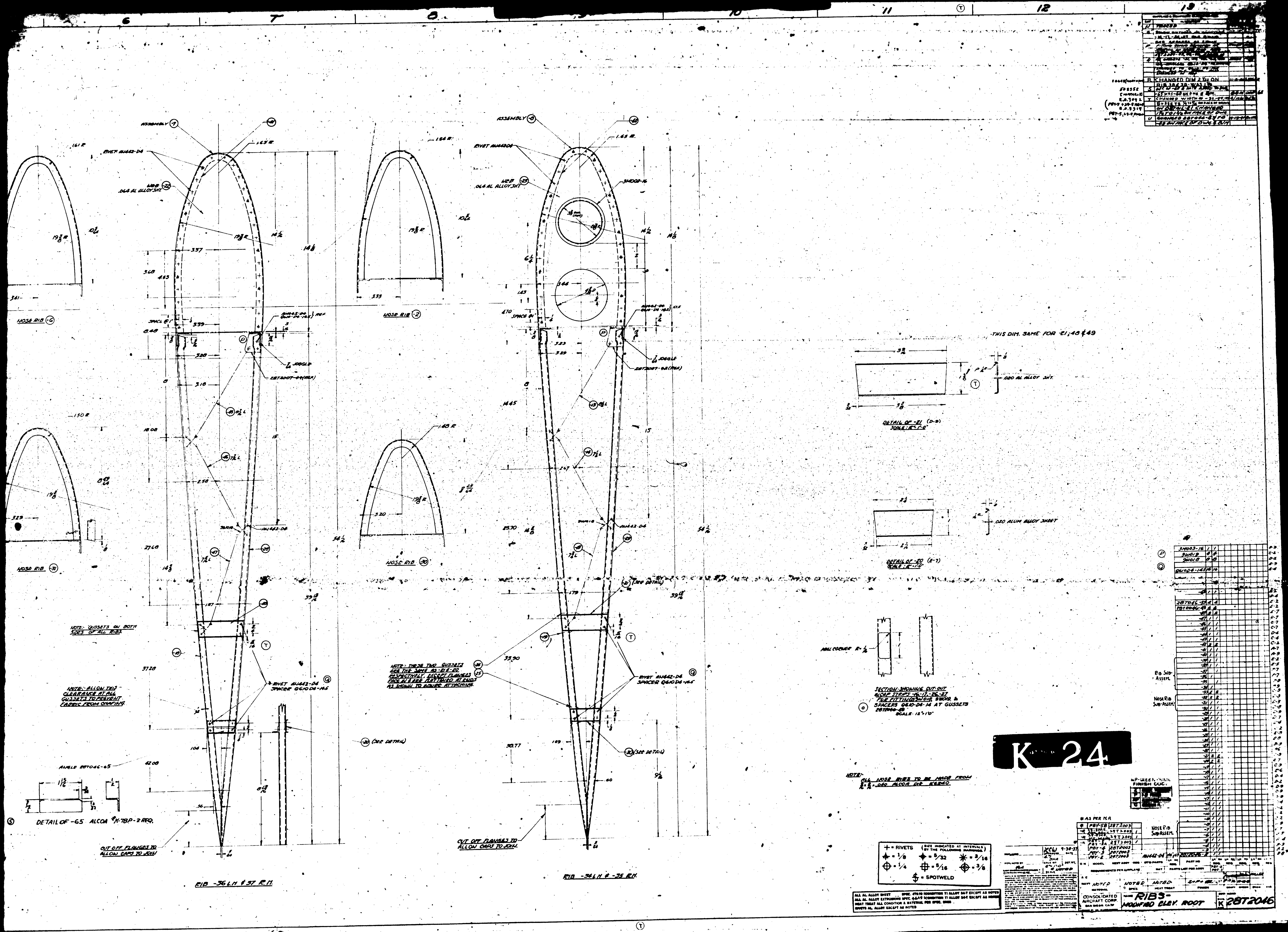
DASH NO. TYPE END
-11 A
-12 A
-13 B
-14 B
-15 B
-20 A
-61 A
NOTE:- STRINGERS -2,-3,-4,-5,-6,-7,-8,&-9 ARE CUT OFF SQUARE AT ℄ SPLICE.
TYPE A STRINGER END
TYPE B STRINGER END
SECTION V-V
DETAIL AT R
SHOWING ATTACHMENT OF HINGE BRACKET
(SKIN NOT SHOWN IN TOP & BOTTOM VIEWS)
SECTION U-U
TYPICAL SECTION THRU SKIN SPLICE, UPPER & LOWER SURFACES
SECTION S-S
SECTION EE-EE
VIEW LOOKING FWD.
VIEW LOOKING INBD. FRONT SPAR SECT
NOTE:- PAINT WALKWAYS UPPER SURFACE ONLY, AS SHOWN
UPPER SURFACE
LOWER SURFACE
SKIN DIAGRAM OF STABILIZER SURFACES
FLAP CONTROL DIAGRAM SHOWING CABLE INSTALLATION VIEW LOOKING AFT
SECTION T-T
DETAIL AT Q
DETAIL OF FLAP CONTROL UNIT ATTACHM
VIEW A-A
VIEW B-B
VIEW Z-Z
K 23

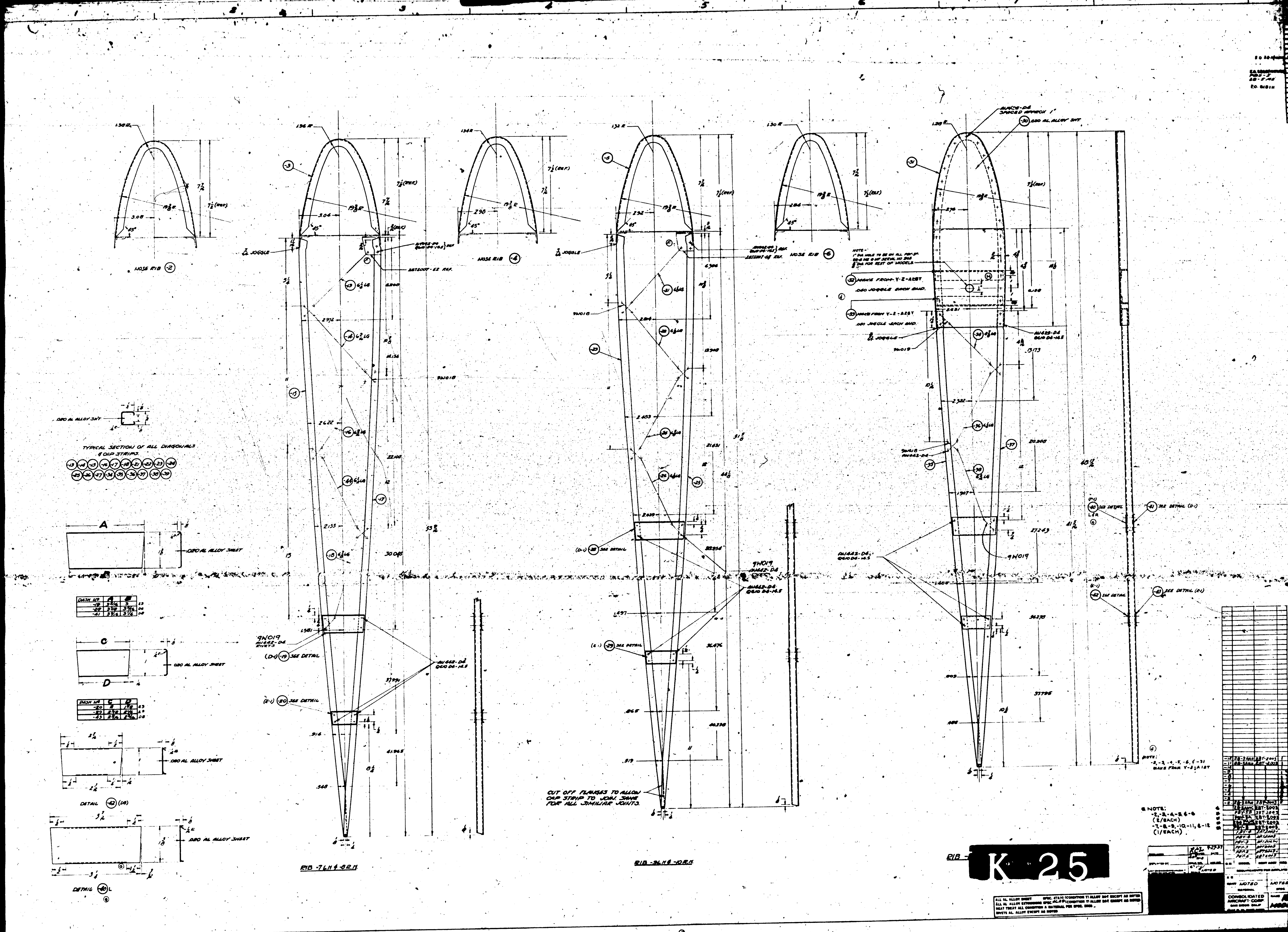


DETAIL AT R
SHOWING ATTACHMENT OF HINGE BRACKET 28T015
(SKIN NOT SHOWN IN TOP & BOTTOM VIEWS)
SECTION S-S
DETAIL AT P
INSTALLATION OF DOOR AT ℄ HINGE
NOTE:- 28T3015 REPLACES THIS INSTALLATION ON PBY3 & FUTURE SHIPS
VIEW LOOKING FWD.
VIEW LOOKING INBD. FRONT SPAR SECT.
SECTION EE-EE
FLAP CONTROL
HINGE
DETAIL AT Q
DETAIL OF FLAP CONTROL UNIT ATTACHMENT
FLAP CONTROL DIAGRAM SHOWING CABLE INSTALLATION VIEW LOOKING AFT
TO COCKPIT
VIEW A-A
VIEW B-B
SECTION T-T
K 23
SHEET #2 OF 2 SHEETS
SEE SHEET NO. 1 FOR B.M.
CONSOLIDATED AIRCRAFT CORP.
SAN DIEGO CALIF.
STABILIZER STRUCTURE & ASS'Y.
K 28T2029
SHEET #2

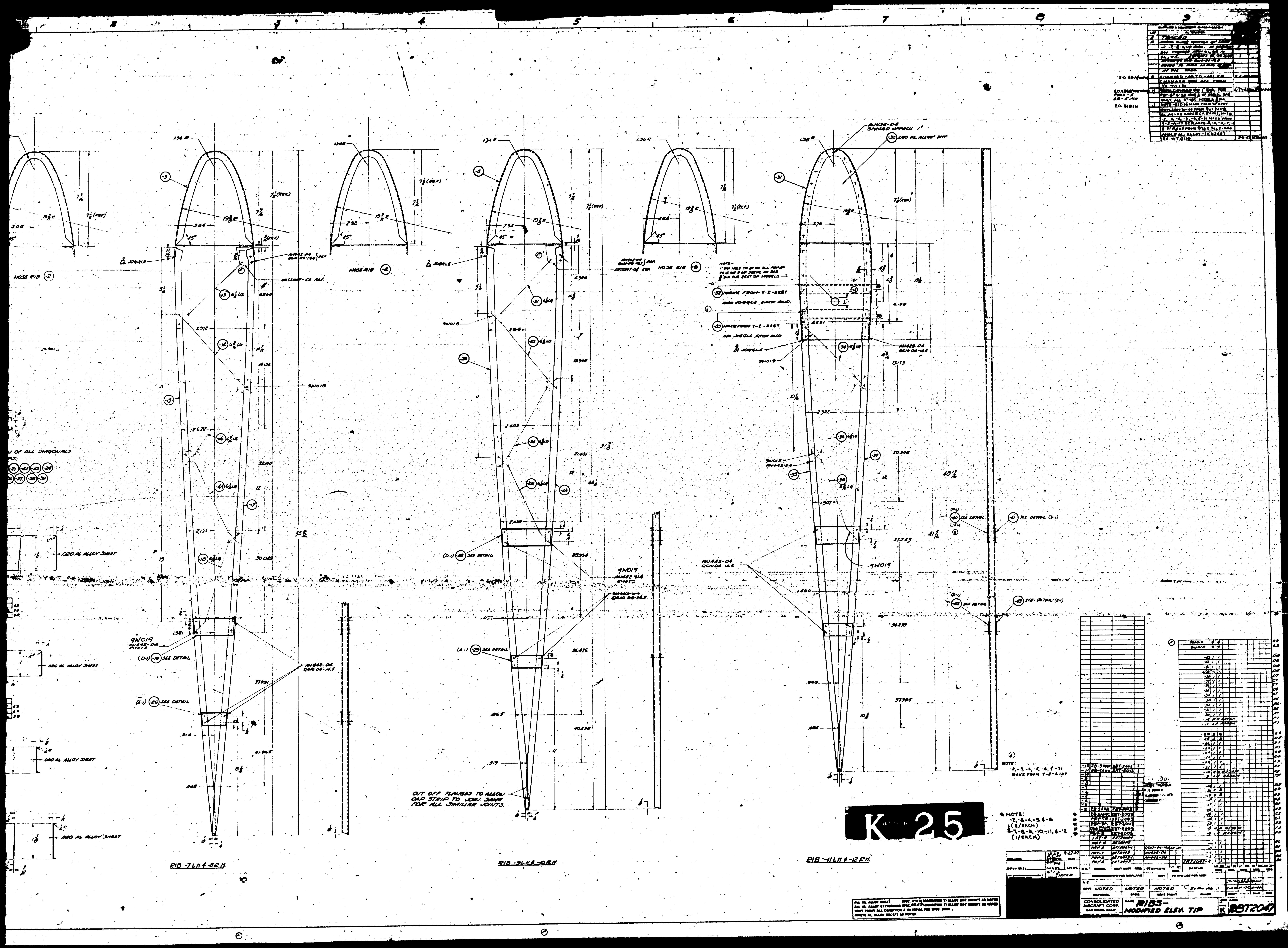


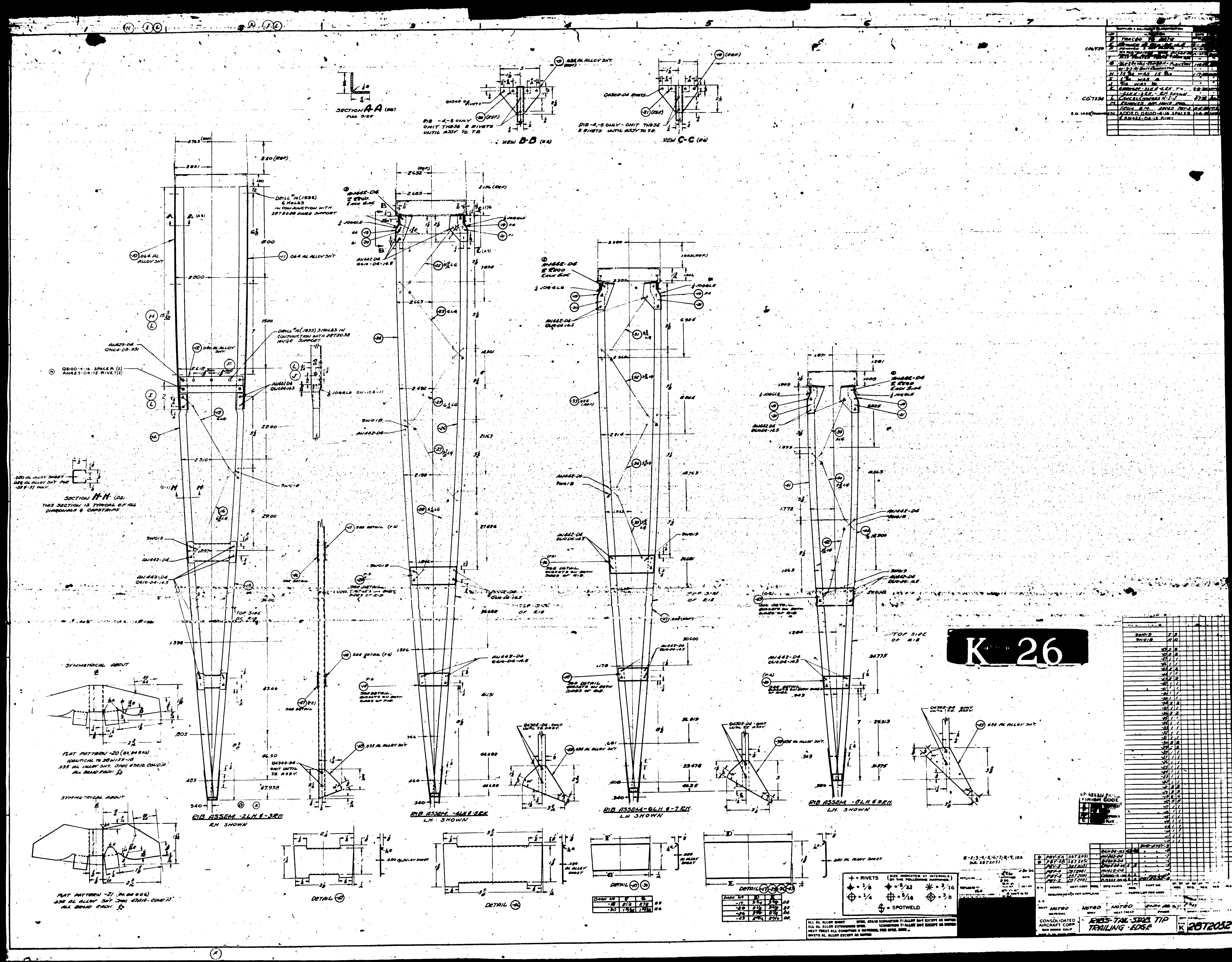
RIB -39
RIB -39
NOSE RIB
DETAIL OF -65 ALCOA
RIB -36 L.H. & 57 R.H.
K 24


K 24
RIB -36 LH & 37 RH
RIB -34 LH & -35 RH
NOSE RIB -2
NOSE RIB -30
NOSE RIB -31
NOTE: GUSSETS ON BOTH SIDES OF ALL RIBS
NOTE: ALLOW THIS CLEARANCE AT ALL GUSSETS TO PREVENT FABRIC FROM CHAFING
DETAIL OF -65 ALCOA #K-78P-2 REQ.
CUT OFF FLANGES TO ALLOW CAPS TO JOIN
THIS DIM. SAME FOR -21, 48 & 49
.020 AL ALLOY SHT.
.020 ALUM ALLOY SHEET
NOTE: ALL NOSE RIBS TO BE MADE FROM .040 ALCOA DIE K6240
+ = RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKINGS)
= 1/8
= 5/32
= 3/16
= 1/4
= 5/16
= 3/8
$ = SPOTWELD
ALL AL. ALLOY SHEET SPEC. 47A10 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS SPEC. 46A9 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION & MATERIAL PER SPEC.
RIVETS AL. ALLOY EXCEPT AS NOTED
AS PER N.R.
NOSE RIB SUB-ASSEM.
RIB SUB-ASSEM.
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
RIBS - MODIFIED ELEV. ROOT
K 28T2046

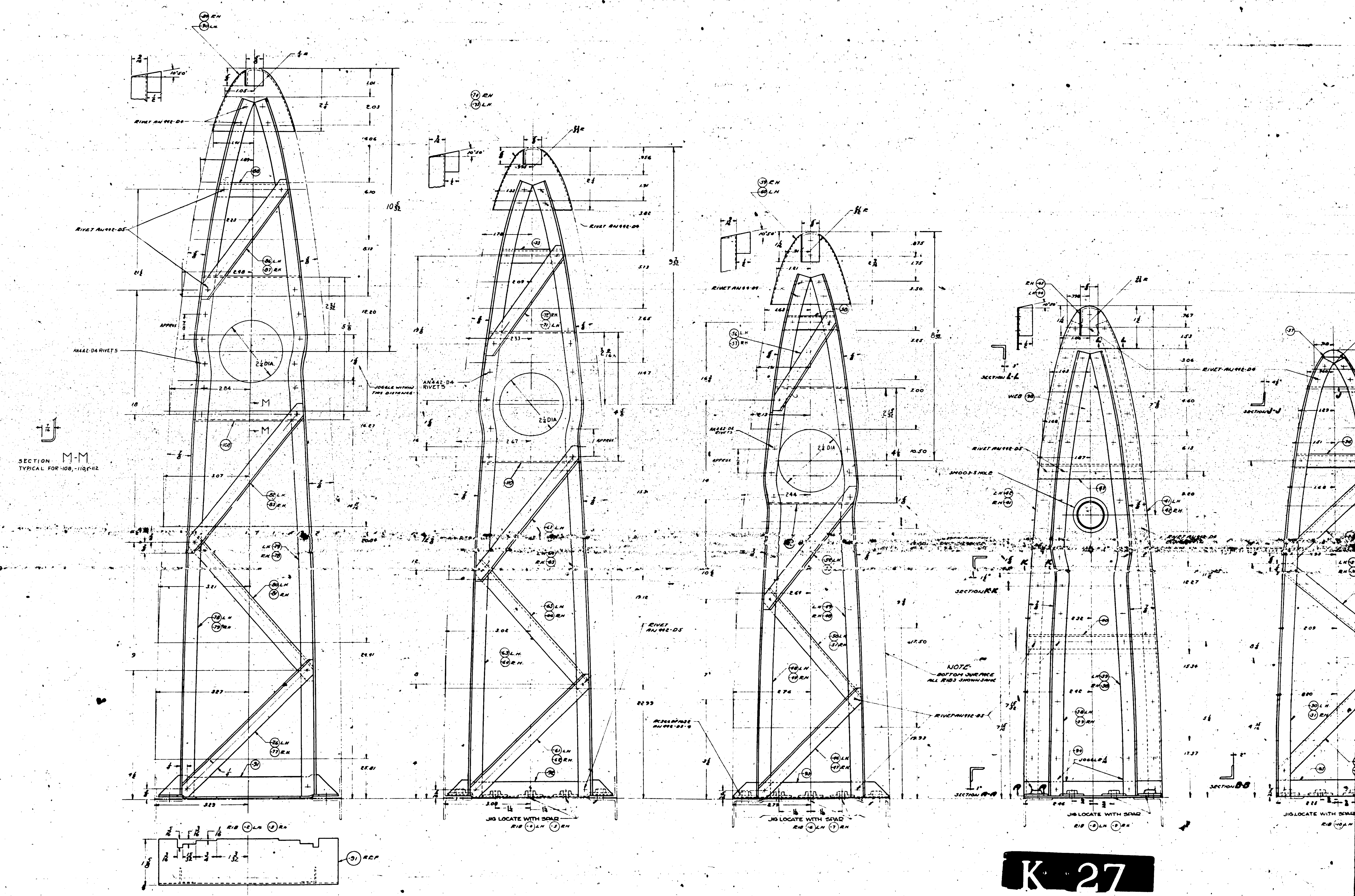


NOSE RIB (2)
NOSE RIB (4)
NOSE RIB (6)
TYPICAL SECTION OF ALL DIAGONALS & CAP STRIPS.
.020 AL ALLOY SHEET
RIB -7LH & 8RH
RIB -9LH & -10RH
CUT OFF FLANGES TO ALLOW CAP STRIP TO JOIN. SAME FOR ALL SIMILAR JOINTS.
K 25
CONSOLIDATED AIRCRAFT CORP

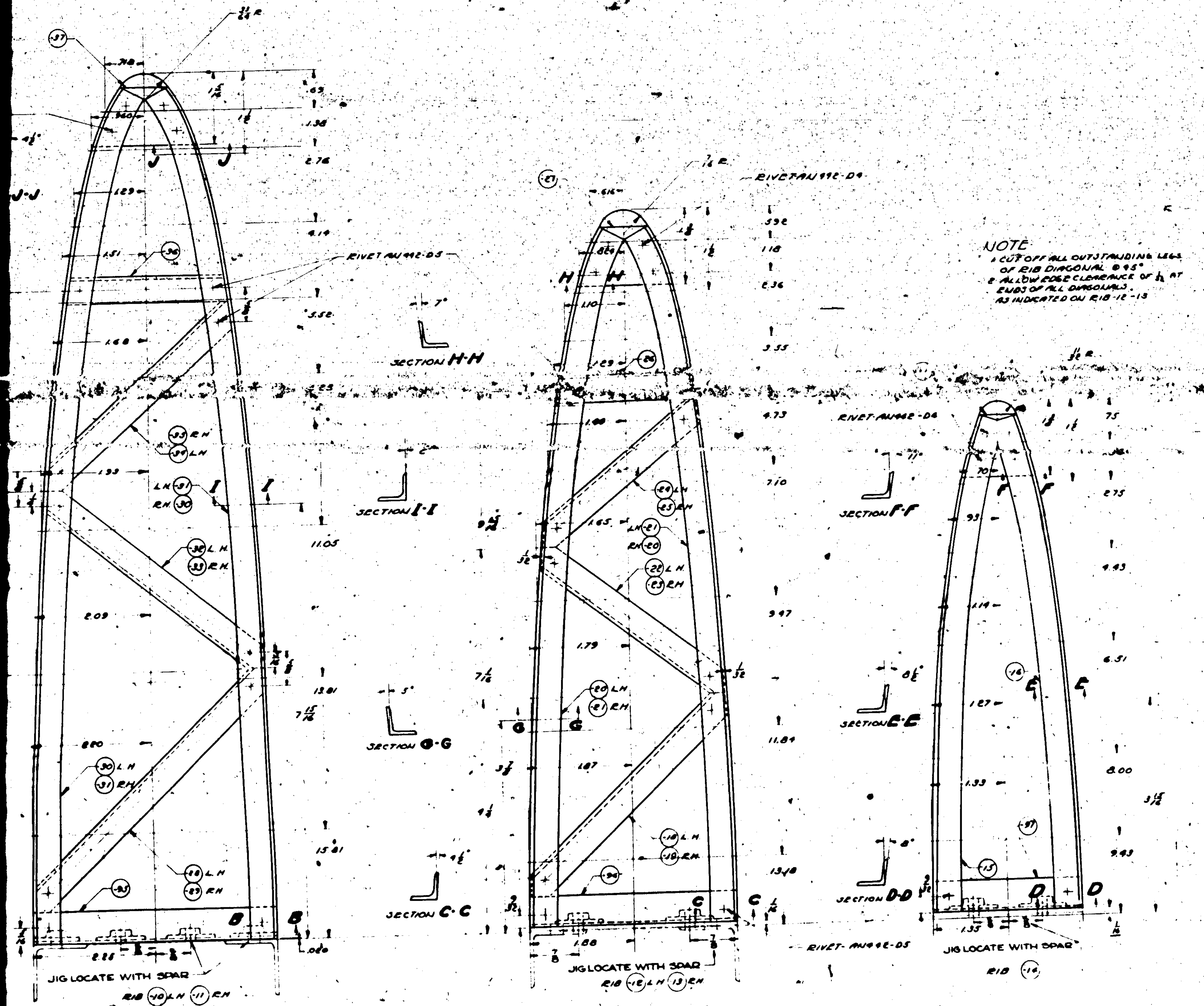

NOSE RIB -2
NOSE RIB -4
NOSE RIB -6
RIB -7LH & -8RH
RIB -9LH & -10RH
RIB -11LH & -12RH
CUT OFF FLANGES TO ALLOW CAP STRIP TO JOIN. SAME FOR ALL SIMILAR JOINTS.
.020 AL ALLOY SHEET
NOTE: -2, -3, -4, -5, -6, & -31 MAKE FROM Y-2-A12T
K 25
NOTE: -2,-3,-4,-5,&-6 (2/EACH) -7,-8,-9,-10,-11,&-12 (1/EACH)
ALL AL. ALLOY SHEET SPEC. 47A10 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS SPEC. 46A9 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION A MATERIAL PER SPEC.
RIVETS AL. ALLOY EXCEPT AS NOTED
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
RIBS - MODIFIED ELEV. TIP
K 28T2047



SECTION A-A
VIEW B-B
VIEW C-C
SECTION H-H
THIS SECTION IS TYPICAL OF ALL DIAGONALS & CAPSTRIPS
RIB ASSEM. -2 L.H. & -3 R.H.
R.H. SHOWN
RIB ASSEM. -4 L.H. & -5 R.H.
L.H. SHOWN
RIB ASSEM. -6 L.H. & -7 R.H.
L.H. SHOWN
RIB ASSEM. -8 L.H. & -9 R.H.
L.H. SHOWN
TOP SIDE OF RIB
SYMMETRICAL ABOUT
FLAT PATTERN -20
FLAT PATTERN -21
DETAIL
K 26
RIVETS
SPOTWELD
CONSOLIDATED AIRCRAFT CORP.
RIBS-TAIL-STAB. TIP TRAILING-EDGE
K 28T2052


SECTION M-M
TYPICAL FOR -108, -110 & -112
AN442-D4 RIVETS
JIG LOCATE WITH SPAR
NOTE-
BOTTOM SURFACE
ALL RIBS SHOWN SAME
SECTION K-K
SECTION L-L
SECTION J-J
SECTION B-B
SECTION A-A
2¼ DIA
WEB
JIG LOCATE WITH SPAR

K 27



NOTE
1. CUT OFF ALL OUTSTANDING LEGS OF RIB DIAGONAL @ 45°
2. ALLOW FOR CLEARANCE OF 1/8 AT ENDS OF ALL DIAGONALS AS INDICATED ON RIB -12 -13

FINISH NOTES:
MAIN RIB ASSEMBLIES Z+P
ALL RIVET HOLES TO BE DRILLED BEFORE FINISH IS APPLIED

K 27

	Model	Next Ass'y	
	2A-SAMH	28T2051	
	2A-SAMC	28T2051	
	2A-SMN	28T2051	
	2A-SMF	28T2051	
	2A-SMC	28T2051	
	2A-SMA	28T2051	
	PBY-5B	28T2051	
	PBY-5A	28T2051	
	PBY-5	28T2051	
	PBY-4	28T2051	
	PBY-3	28T2051	
	PBY-2	28T2051	

REQUIREMENTS PER AIRPLANE

Part No.	Stock	Material	Spec.
	AN442-D5		
	AN442-D4		
-10A	.051 x 6 1/4 x 6 3/4	AL. ALLOY	47A10-T
-51	K6240 x 6 3/4		46A9-T
-50	.030 x 1 x 1 1/4		47A10-T
-8A	K6240 x 2 1/4		46A9-T
-86	x 4		
-82	x 7 3/8		
-80	x 7 3/8		
-79	x 25 1/2		
-78	x 25 1/2		
-76	K6240 x 7	AL. ALLOY	46A9-T
-2	SUB ASSY		

PARTS LIST PER ASSY.

LH RH REQ	LH RH REQ	LH RH REQ	LH RH REQ	LH RH REQ	ZONE
-0	-2	-3	-4	-5	

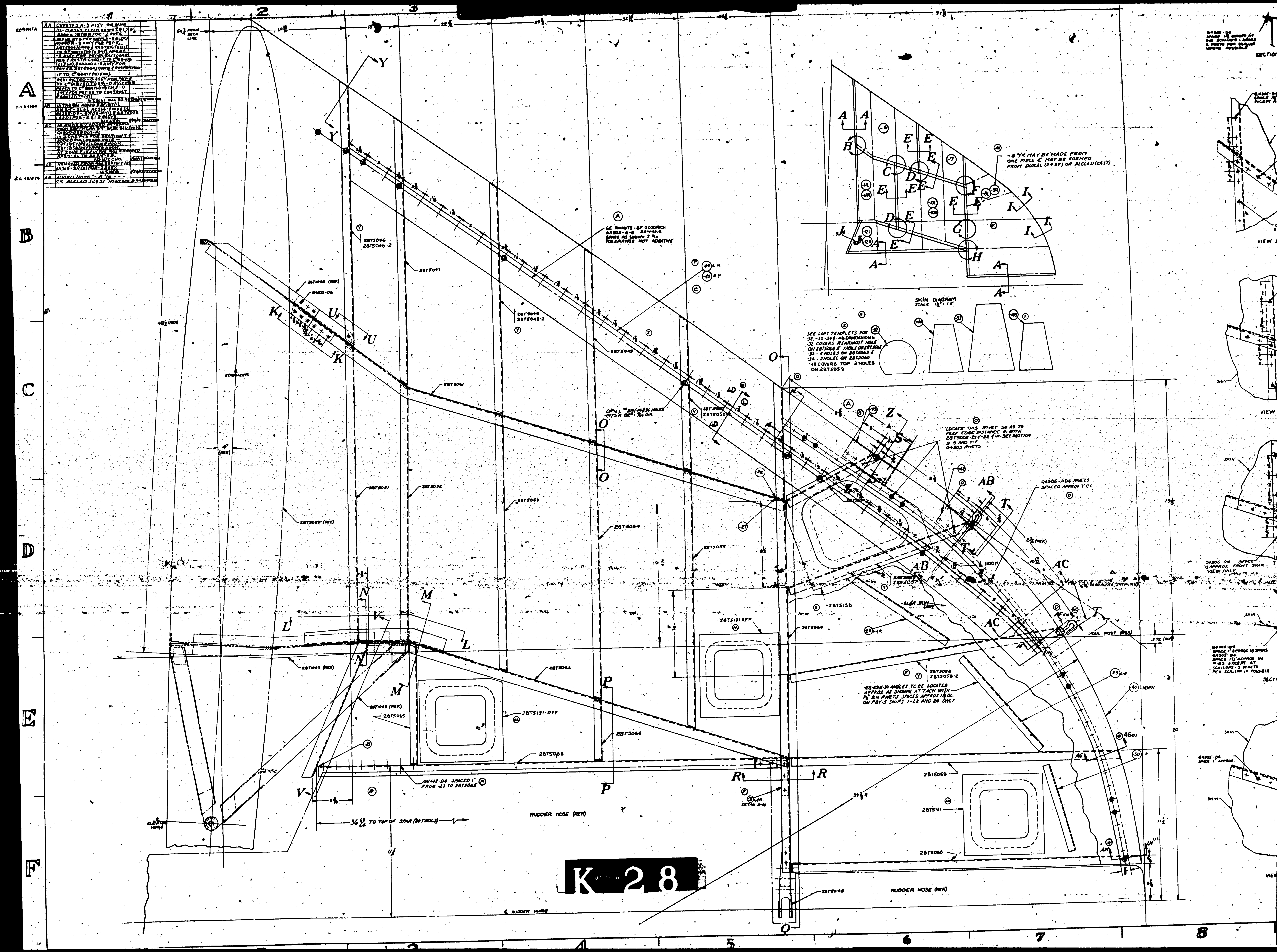
SCALE 12" = 1'0"

NAME RIBS-STABILIZER-TIP

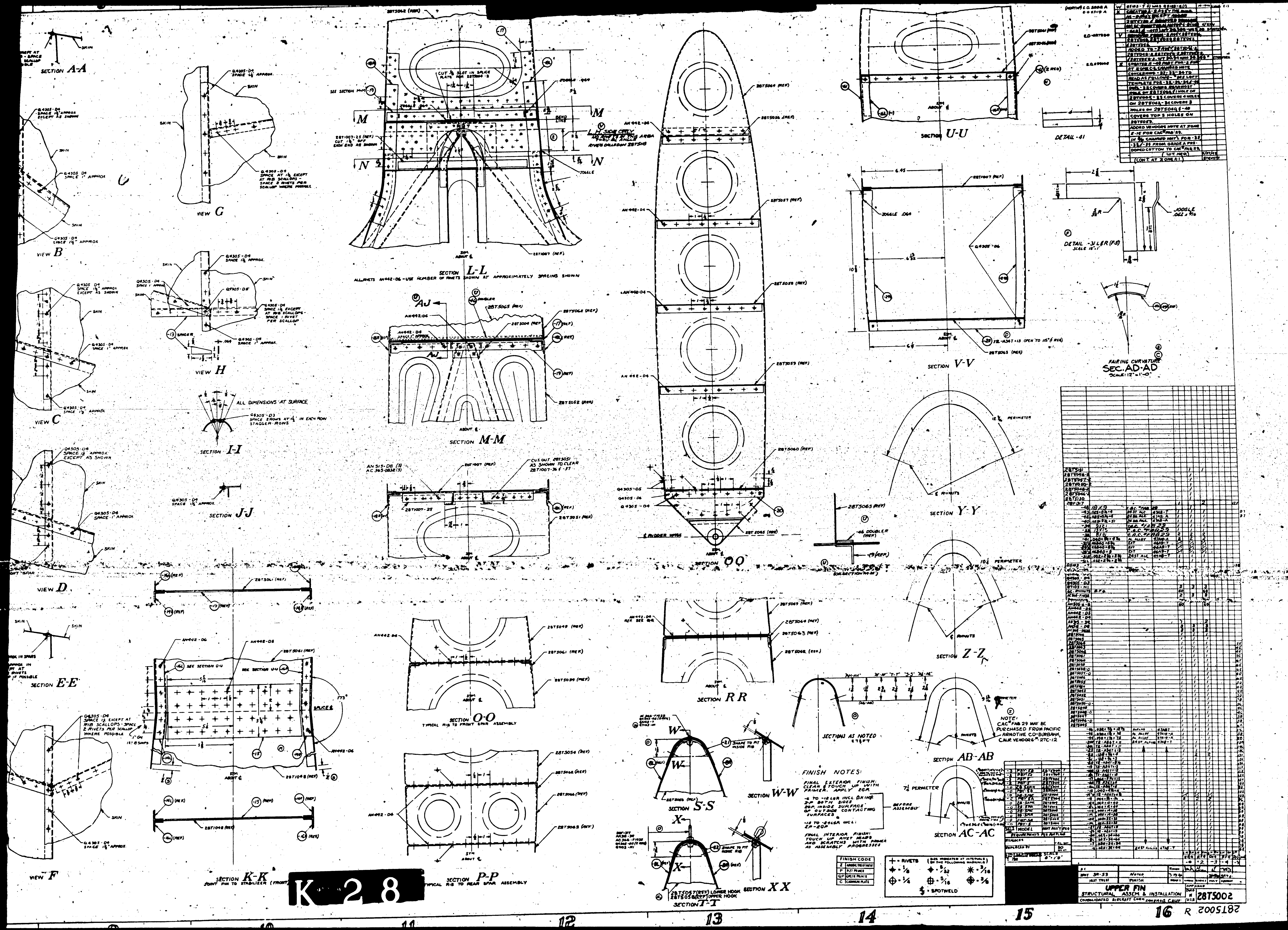
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.

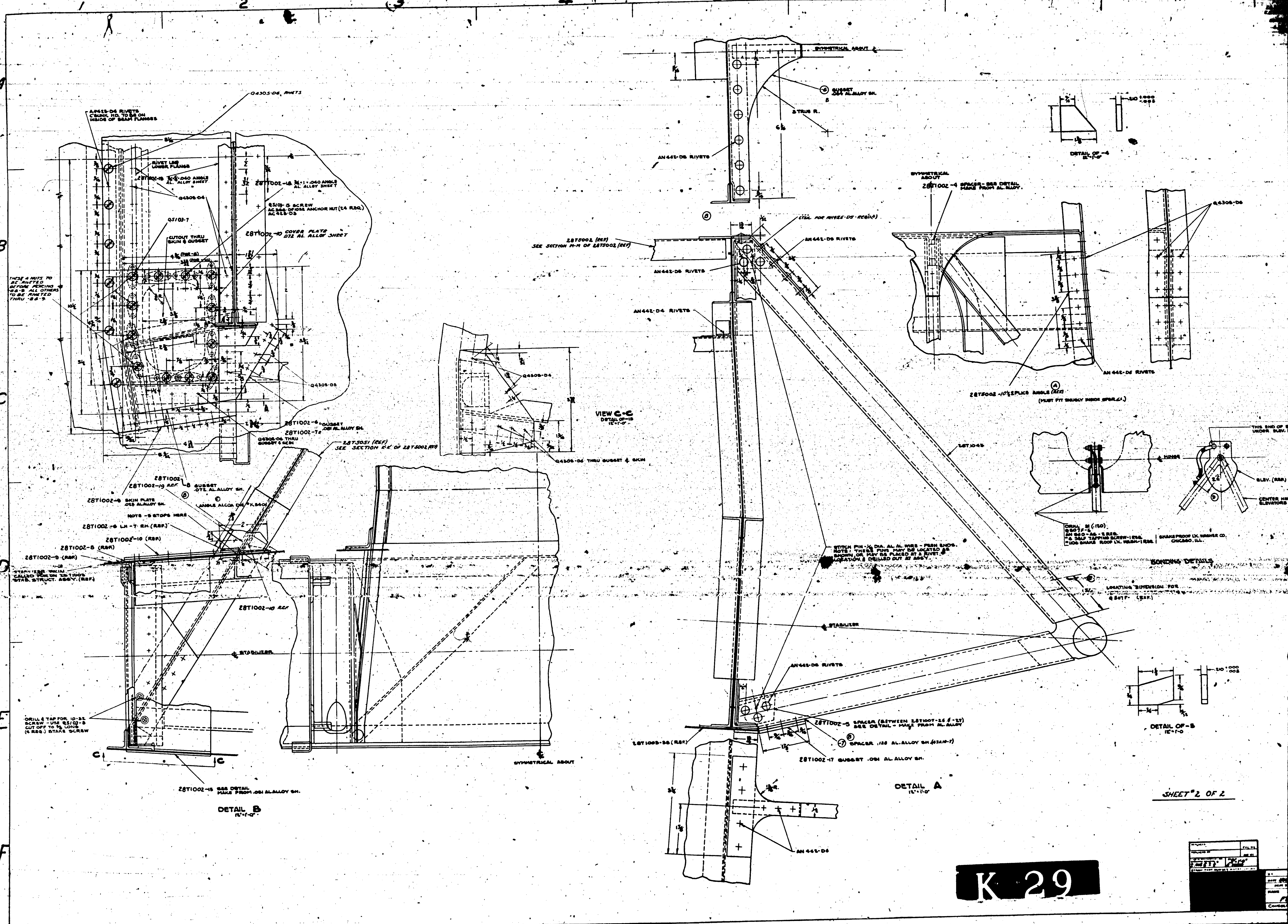
K 28T2053

28T2053

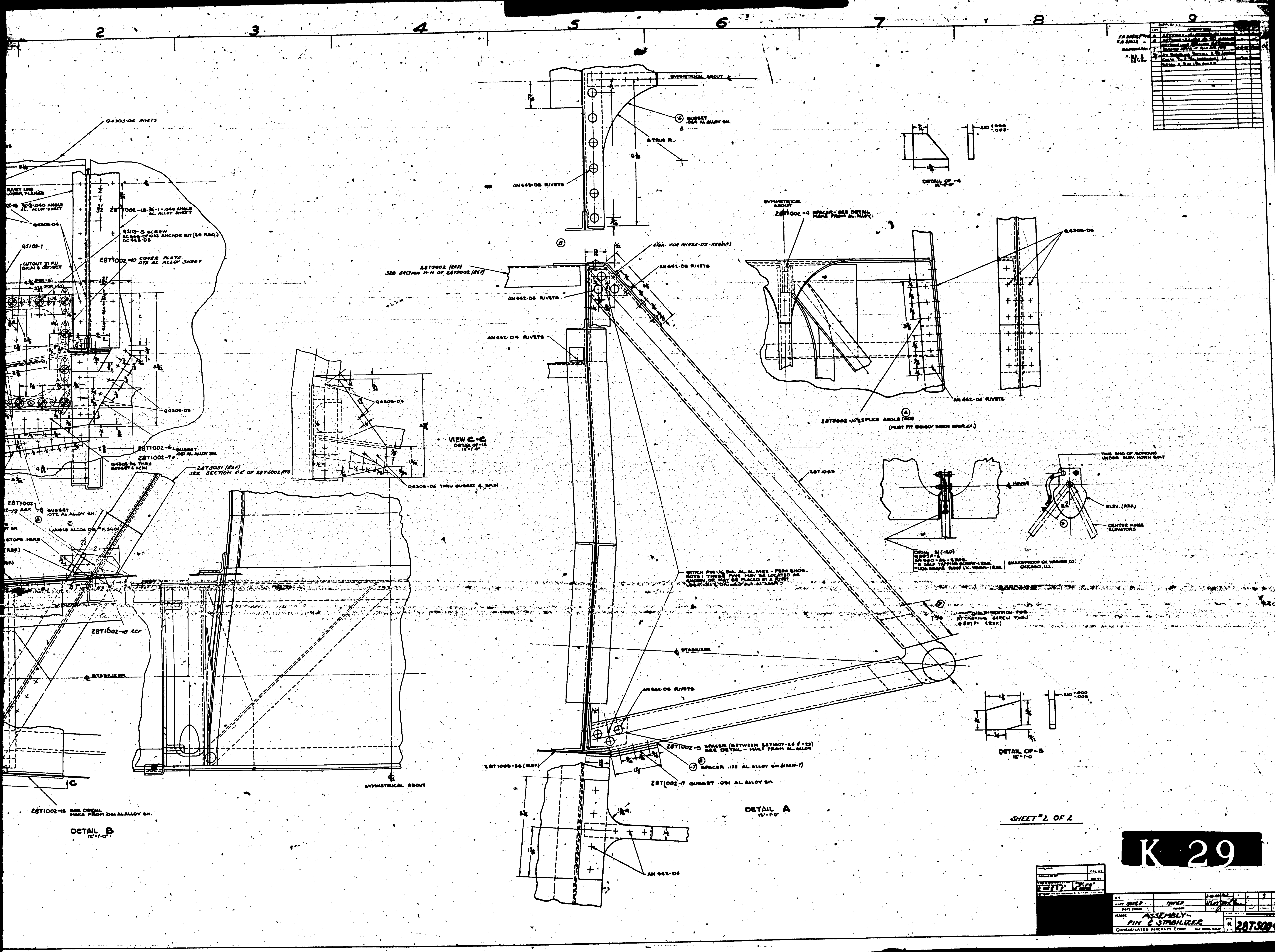


K 28
SKIN DIAGRAM
RUDDER NOSE (REF)
TAIL POST (REF)
28T5061
28T5062
28T5063
28T5054
28T5055
28T5059
28T5060
28T5131
28T5131-REF
28T5065
28T5066
28T5047
28T5150
-8 4/R MAY BE MADE FROM ONE PIECE & MAY BE FORMED FROM DURAL (24 ST) OR ALCLAD (24 ST)
Q4305-AD4 RIVETS SPACED APPROX 1" CC
AN442-D4 SPACED 1"
HORN
HOOK
VIEW
SECTION
SKIN

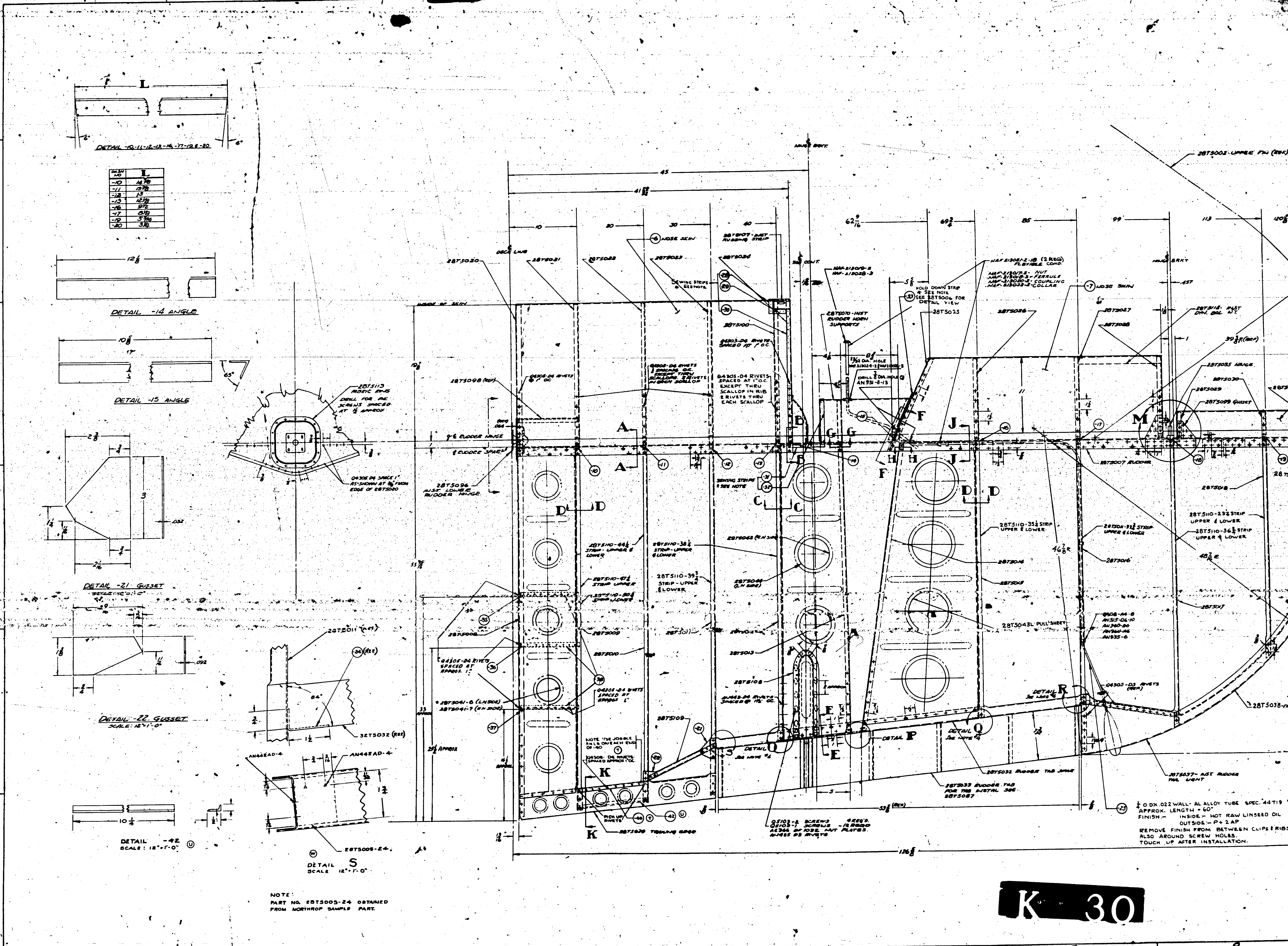

SECTION A-A
VIEW B
VIEW C
VIEW D
SECTION E-E
VIEW F
VIEW G
VIEW H
SECTION I-I
SECTION J-J
SECTION K-K
SECTION L-L
ALL RIVETS AN442-06 - USE NUMBER OF RIVETS SHOWN AT APPROXIMATELY SPACING SHOWN
SECTION M-M
SECTION N-N
SECTION O-O
TYPICAL RIB TO FRONT SPAR ASSEMBLY
SECTION P-P
TYPICAL RIB TO REAR SPAR ASSEMBLY
SECTION RR
SECTION S-S
SECTION T-T
SECTION U-U
SECTION V-V
SECTION W-W
SECTION XX
SECTION Y-Y
SECTION Z-Z
SECTION AB-AB
SECTION AC-AC
SEC. AD-AD
FAIRING CURVATURE
DETAIL -41
DETAIL -31 LER (FS)
ALL DIMENSIONS AT SURFACE
FINISH NOTES:
SECTIONS AS NOTED
UPPER FIN
STRUCTURAL ASSEM & INSTALLATION
CONSOLIDATED AIRCRAFT CORP.
28T5002
K 28
13
14
15
16

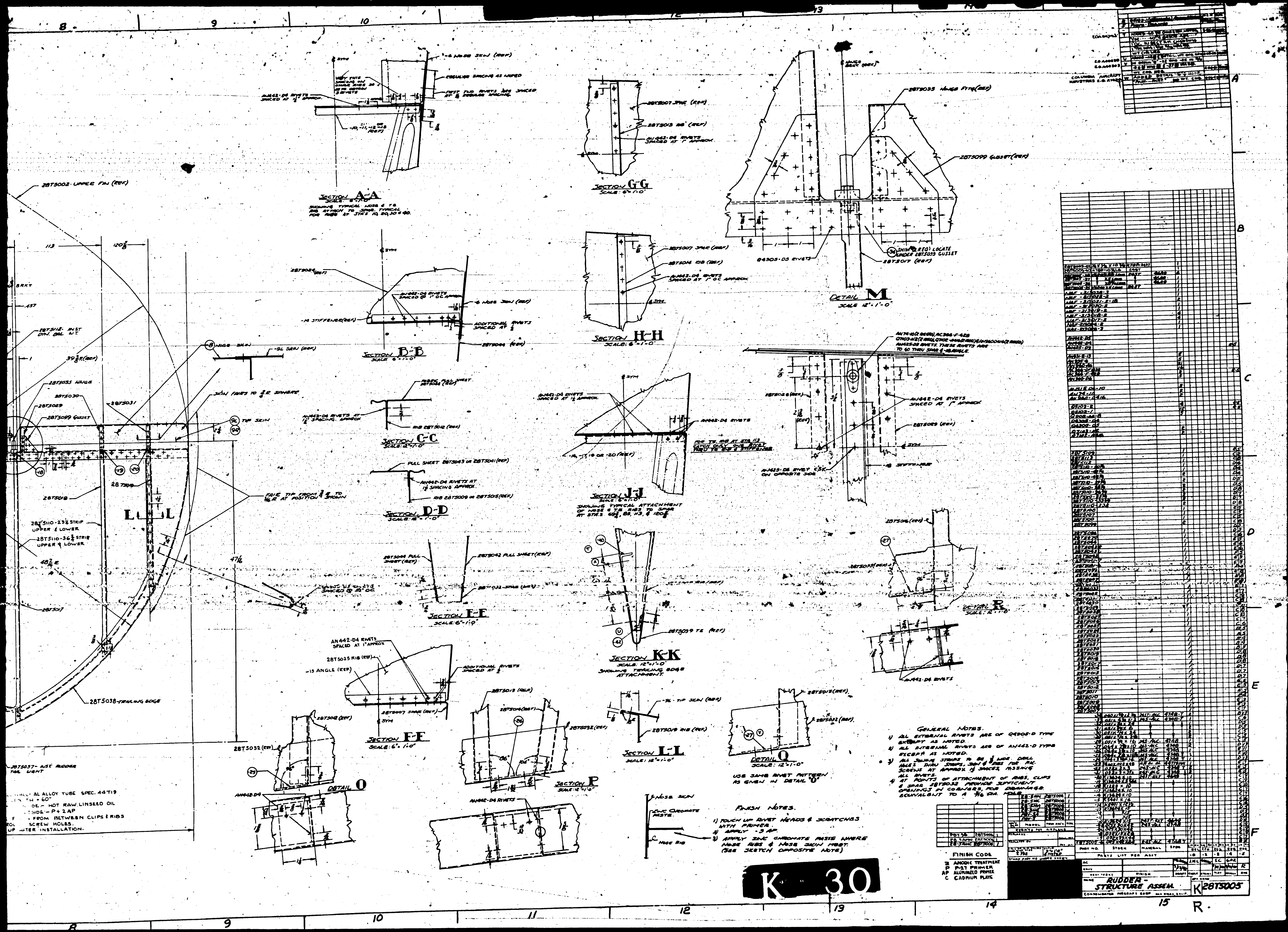


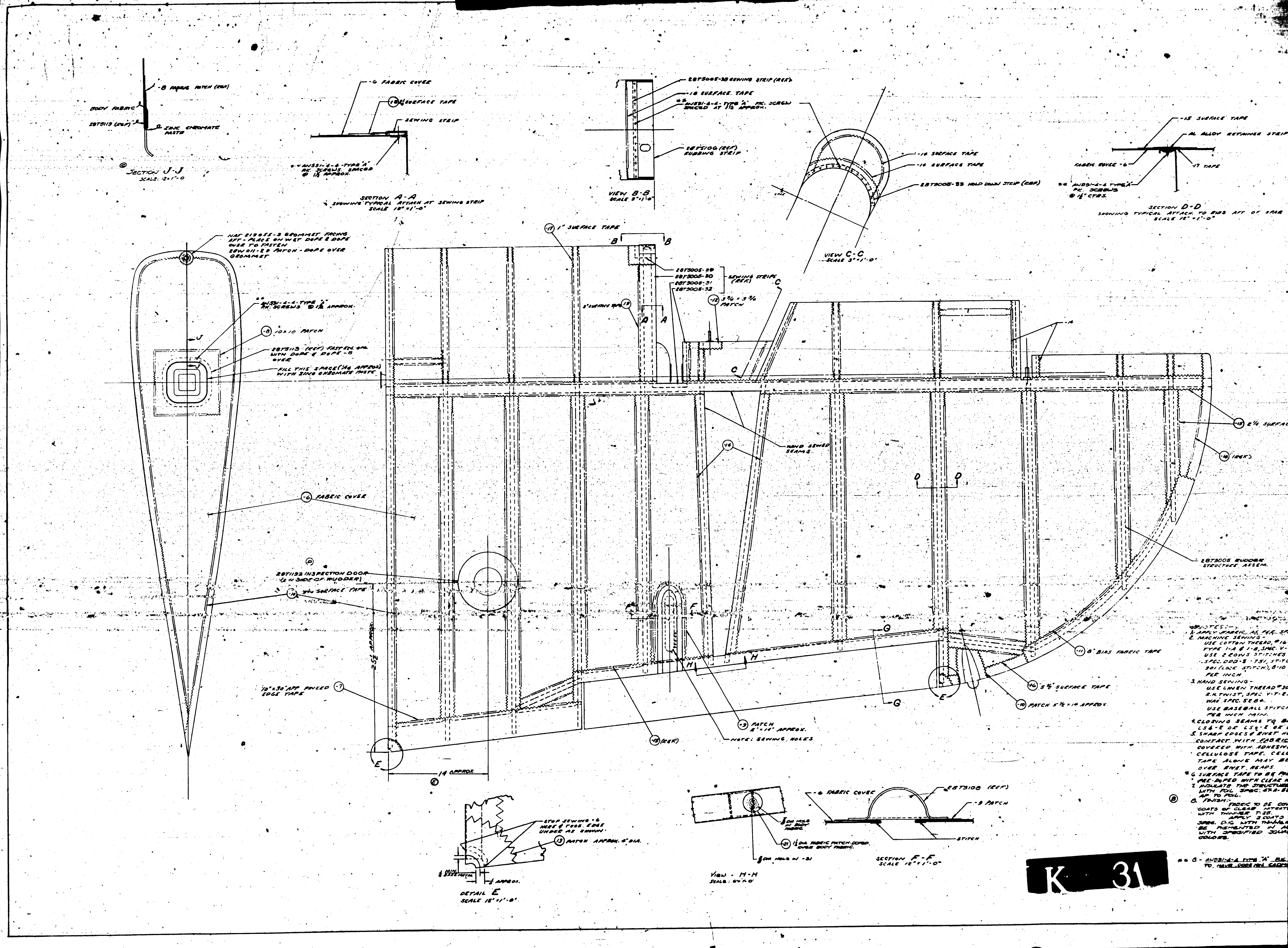
DETAIL A
DETAIL B
VIEW C-C
DETAIL OF-4
DETAIL OF-5
BONDING DETAILS
SHEET #2 OF 2
K 29

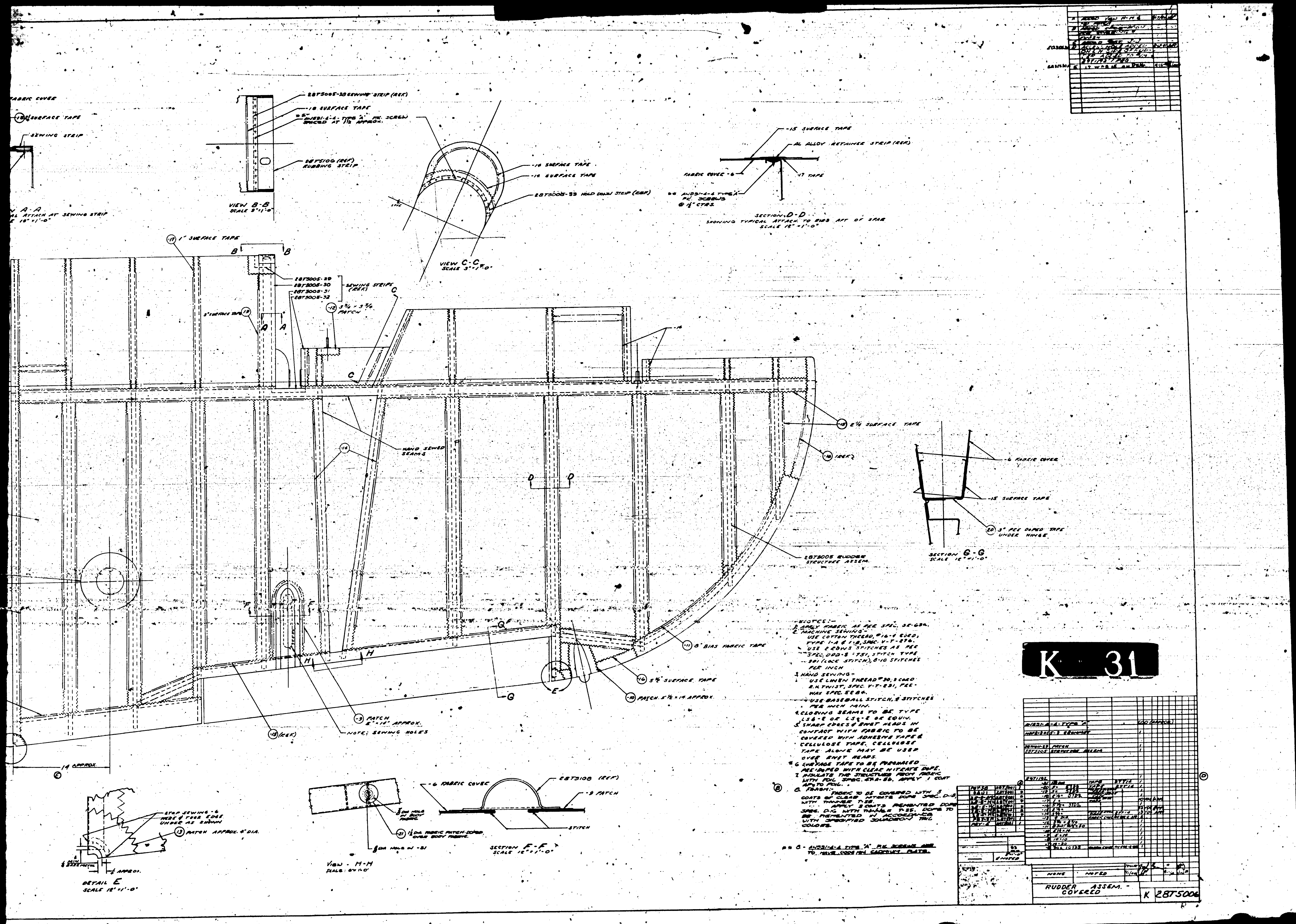


DETAIL A
DETAIL B
VIEW C-C
DETAIL OF-4
DETAIL OF-5
AN 442-D6 RIVETS
AN 442-D4 RIVETS
28T1002-4 SPACER - SEE DETAIL MAKE FROM AL. ALLOY
28T1002-17 GUSSET .051 AL. ALLOY SH.
SYMMETRICAL ABOUT
STABILIZER
SHEET #2 OF 2
K 29
ASSEMBLY - FIN & STABILIZER
CONSOLIDATED AIRCRAFT CORP.
28T5004

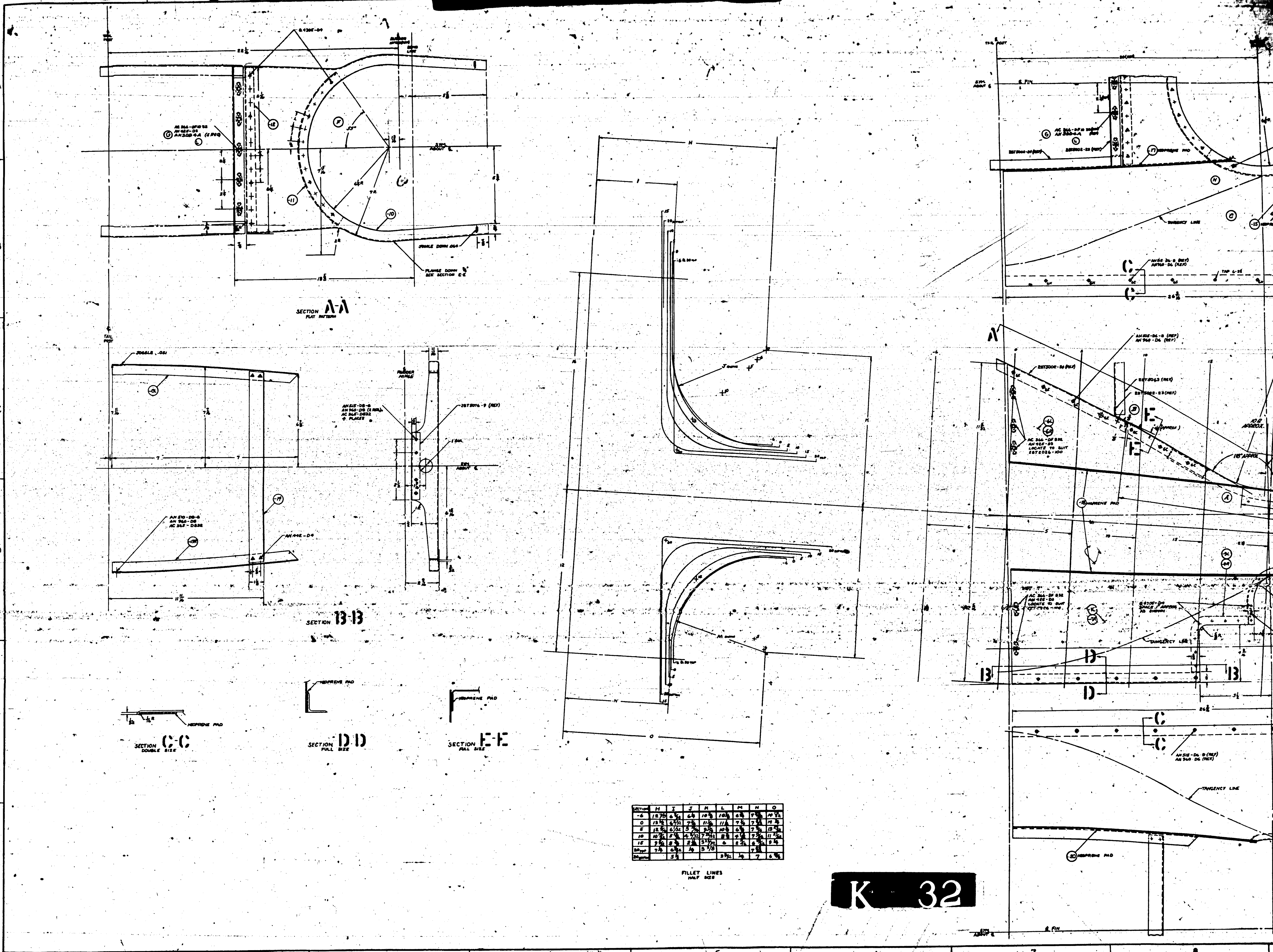

DETAIL -10-11-12-13-16-17-19 & -20
DETAIL -14 ANGLE
DETAIL -15 ANGLE
DETAIL -21 GUSSET
DETAIL -22 GUSSET
SCALE: 12"=1'-0"
DETAIL -42
SCALE: 12"=1'-0"
DETAIL S
SCALE 12"=1'-0"
2BT5005-24
2BT5032 (REF)
AN442AD-4
2BT5113 FABRIC RING
04305-D4 SPACE 1" AS SHOWN
2BT5002-UPPER FIN (REF)
2BT5096 INST. LOWER RUDDER HINGE
2BT5030
2BT5031
2BT5033
2BT5034
2BT5036
2BT5027
2BT5028
2BT5025
2BT5014
2BT5016
2BT5017
2BT5018
2BT5007 RUDDER
2BT5099 GUSSET
2BT5029
2BT5043L PULL SHEET
2BT5031 RUDDER TAB SPAR
2BT5033 RUDDER TAB FOR THE INSTAL. SEE 2BT5087
2BT5037- INST. RUDDER TAIL LIGHT
2BT5039 TRAILING EDGE
2BT5038
2BT5109
2BT5108
2BT5013
2BT5010
2BT5009
2BT5070-INST RUDDER HORN SUPPORTS
2BT5107-INST RUBBING STRIP
2BT5112- INST DYN. BAL. WT.
2BT5110-35½ STRIP UPPER & LOWER
2BT5110-23½ STRIP UPPER & LOWER
2BT5110-36½ STRIP UPPER & LOWER
2BT5110-39¾ STRIP- UPPER & LOWER
NOSE SKIN
SEWING STRIPS SEE NOTE
DETAIL P
DETAIL Q
DETAIL R
DETAIL T
45
126⅝
½ O.D.X.022 WALL- AL ALLOY TUBE SPEC. 44T19 APPROX. LENGTH = 60"
FINISH - INSIDE - HOT RAW LINSEED OIL
OUTSIDE - P + 2AP
REMOVE FINISH FROM BETWEEN CLIPS & RIBS
ALSO AROUND SCREW HOLES.
TOUCH UP AFTER INSTALLATION.
NOTE:
PART NO. 2BT5005-24 OBTAINED FROM NORTHROP SAMPLE PART.
K 30


SECTION A-A
SHOWING TYPICAL NOSE & T.E. RIB ATTACH TO SPAR. TYPICAL FOR RIBS AT STA'S 10, 20, 30 & 40.
SECTION G-G
SCALE: 6"=1'-0"
DETAIL M
SCALE 12"=1'-0"
28T5035 HINGE FTTG (REF)
28T5099 GUSSET (REF)
28T5017 (REF)
Q4305-D5 RIVETS
28T5002-UPPER FIN (REF)
SECTION B-B
SCALE 6"=1'-0"
SECTION H-H
SCALE: 6"=1'-0"
SECTION C-C
SCALE: 12"=1'-0"
SECTION D-D
SCALE: 12"=1'-0"
SECTION J-J
SHOWING TYPICAL ATTACHMENT OF NOSE & T.E. RIBS TO SPAR
SECTION E-E
SCALE: 6"=1'-0"
SECTION K-K
SCALE: 12"=1'-0"
SHOWING TRAILING EDGE ATTACHMENT.
DETAIL R
SCALE: 12"=1'-0"
SECTION F-F
SCALE: 6"=1'-0"
SECTION P
SCALE: 12"=1'-0"
SECTION L-L
SCALE: 12"=1'-0"
DETAIL Q
SCALE: 12"=1'-0"
USE SAME RIVET PATTERN AS GIVEN IN DETAIL "O"
DETAIL O
28T5038-TRAILING EDGE
28T5018
28T5017
28T5110-23⅞ STRIP UPPER & LOWER
28T5110-36⅞ STRIP UPPER & LOWER
28T5037- ASSY RUDDER TAIL LIGHT
AL ALLOY TUBE SPEC. 44T19
HOT RAW LINSEED OIL
FROM BETWEEN CLIPS & RIBS
SCREW HOLES.
GENERAL NOTES.
1) ALL EXTERNAL RIVETS ARE OF Q4305-D TYPE EXCEPT AS NOTED.
2) ALL INTERNAL RIVETS ARE OF AN442-D TYPE EXCEPT AS NOTED.
FINISH NOTES.
1) TOUCH UP RIVET HEADS & SCRATCHES WITH PRIMER.
2) APPLY -3 AP.
3) APPLY ZINC CHROMATE PASTE WHERE NOSE RIBS & NOSE SKIN MEET. (SEE SKETCH OPPOSITE NOTE)
FINISH CODE
Z ANODIC TREATMENT
P P-27 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE
PARTS LIST PER ASSY
RUDDER - STRUCTURE ASSEM.
K 28T5005
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
K 30


SECTION J-J
SCALE: 12"=1'-0"
BODY FABRIC
ZINC CHROMATE PASTE
-6 FABRIC COVER
SEWING STRIP
SECTION A-A
SHOWING TYPICAL ATTACH AT SEWING STRIP
SCALE 12"=1'-0"
-18 SURFACE TAPE
28T5106 (REF) RUBBING STRIP
VIEW B-B
SCALE 3"=1'-0"
28T5005-33 HOLD DOWN STRIP (REF)
VIEW C-C
SCALE 3"=1'-0"
-15 SURFACE TAPE
AL ALLOY RETAINER STRIP
FABRIC COVER -6
-17 TAPE
SECTION D-D
SHOWING TYPICAL ATTACH. TO RIBS AFT OF SPAR
SCALE 12"=1'-0"
1" SURFACE TAPE
28T5005-29
28T5005-30
28T5005-31
28T5005-32
SEWING STRIPS (REF)
10x10 PATCH
FILL THIS SPACE (1/16 APPROX) WITH ZINC CHROMATE PASTE
HAND SEWED SEAMS
FABRIC COVER
28T1132 INSPECTION DOOR
SURFACE TAPE
28T5005 RUDDER STRUCTURE ASSEM.
BIAS FABRIC TAPE
SURFACE TAPE
NOTE: SEWING HOLES
14 APPROX.
25 1/2 APPROX.
DETAIL E
SCALE 12"=1'-0"
VIEW - H-H
SECTION F-F
SCALE 12"=1'-0"
-6 FABRIC COVER
28T5108 (REF)
-9 PATCH
STITCH
NOTES:
K 31

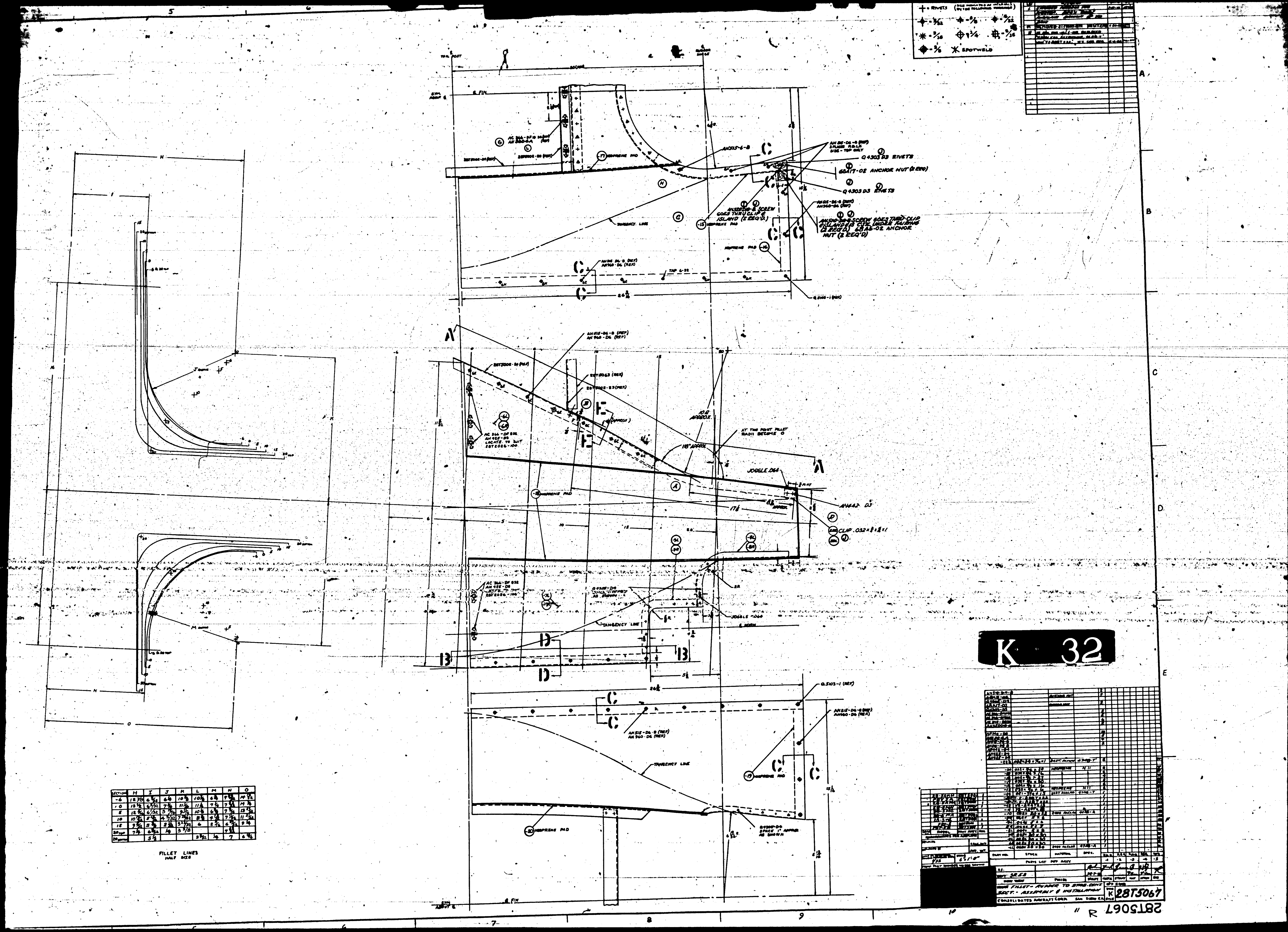


K 31
VIEW B-B
SCALE 3"=1'-0"
28T5005-32 SEWING STRIP (REF)
-18 SURFACE TAPE
28T5106 (REF) RUBBING STRIP
VIEW C-C
SCALE 3"=1'-0"
-14 SURFACE TAPE
28T5005-33 HOLD DOWN STRIP (REF)
-15 SURFACE TAPE
AL ALLOY RETAINER STRIP (REF)
FABRIC COVER -6
-17 TAPE
SECTION D-D
SHOWING TYPICAL ATTACH. TO RIBS AFT OF SPAR
SCALE 12"=1'-0"
1" SURFACE TAPE
28T5005-29
28T5005-30
28T5005-31
28T5005-32
SEWING STRIPS (REF)
HAND SEWED SEAMS
2 1/4 SURFACE TAPE
-6 FABRIC COVER
-15 SURFACE TAPE
SECTION G-G
SCALE 12"=1'-0"
28T5005 RUDDER STRUCTURE ASSEM.
8" BIAS FABRIC TAPE
5 1/2" SURFACE TAPE
PATCH 5 1/2 x 14 APPROX.
NOTE: SEWING HOLES
14 APPROX
DETAIL E
SCALE 12"=1'-0"
-6 FABRIC COVER
28T5108 (REF)
-9 PATCH
STITCH
VIEW - H-H
SECTION F-F
SCALE 12"=1'-0"
NOTES:-
1. APPLY FABRIC AS PER SPEC. SR-63A.
2. MACHINE SEWING-
USE COTTON THREAD, #16-4 CORD, TYPE I-A & I-B, SPEC. V-T-276.
USE 2 ROWS STITCHES AS PER SPEC. DDD-S-751, STITCH TYPE 301 (LOCK STITCH), 8-10 STITCHES PER INCH
3. HAND SEWING-
USE LINEN THREAD #30, 3 CORD R.H. TWIST, SPEC. V-T-291, PRE-WAX SPEC. 5284.
USE BASEBALL STITCH, 8 STITCHES PER INCH MIN.
4. CLOSING SEAMS TO BE TYPE LS6-E OR LS9-E OR EQUIV.
5. SHARP EDGES & RIVET HEADS IN CONTACT WITH FABRIC TO BE COVERED WITH ADHESIVE TAPE & CELLULOSE TAPE. CELLULOSE TAPE ALONE MAY BE USED OVER RIVET HEADS.
* 6. SURFACE TAPE TO BE PURCHASED PRE-DOPED WITH CLEAR NITRATE DOPE.
7. INSULATE THE STRUCTURE FROM FABRIC WITH FOIL SPEC. 67A-86. APPLY 1 COAT APO TO FOIL.
8. FINISH:-
FABRIC TO BE COVERED WITH 5 COATS OF CLEAR NITRATE DOPE SPEC. D-15, WITH THINNER T-25.
APPLY 2 COATS PIGMENTED DOPE SPEC. D-16 WITH THINNER T-25. DOPE TO BE PIGMENTED IN ACCORDANCE WITH SPECIFIED SQUADRON TAIL COLORS.
** 8 - AN531-4-4 TYPE "A" PK SCREWS ARE TO HAVE .0002 MIN CADMIUM PLATE.
NONE
NOTED
RUDDER ASSEM. - COVERED
K 28T5006



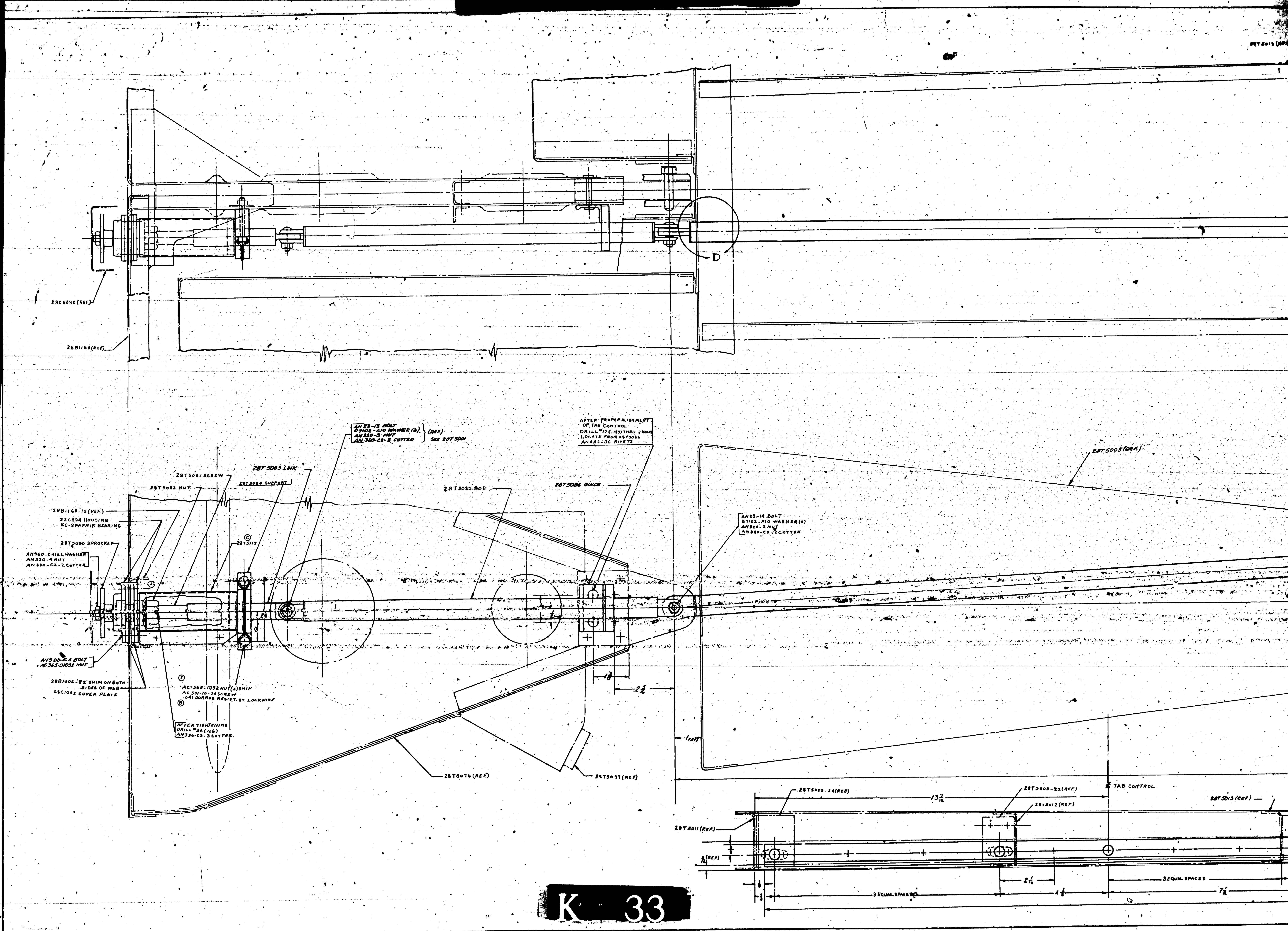
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0	13 [illegible]	6 5/32	7 [illegible]	11 [illegible]	11 [illegible]	7 [illegible]	7 [illegible]	14 [illegible]
5	12 [illegible]	6 1/32	5 [illegible]	9 [illegible]	10 [illegible]	6 [illegible]	7 [illegible]	13 [illegible]
10	10 [illegible]	5 [illegible]	4 5/32	7 21/32	8 [illegible]	4 [illegible]	7 [illegible]	11 [illegible]
15	9 [illegible]	5 [illegible]	2 [illegible]	5 21/32	6	2 [illegible]	6 [illegible]	9 [illegible]
20 [illegible]	7 [illegible]	6 [illegible]	[illegible]	3 5/8			7 [illegible]	
20 [illegible]		5 [illegible]			3 [illegible]/32	[illegible]	7	6 [illegible]

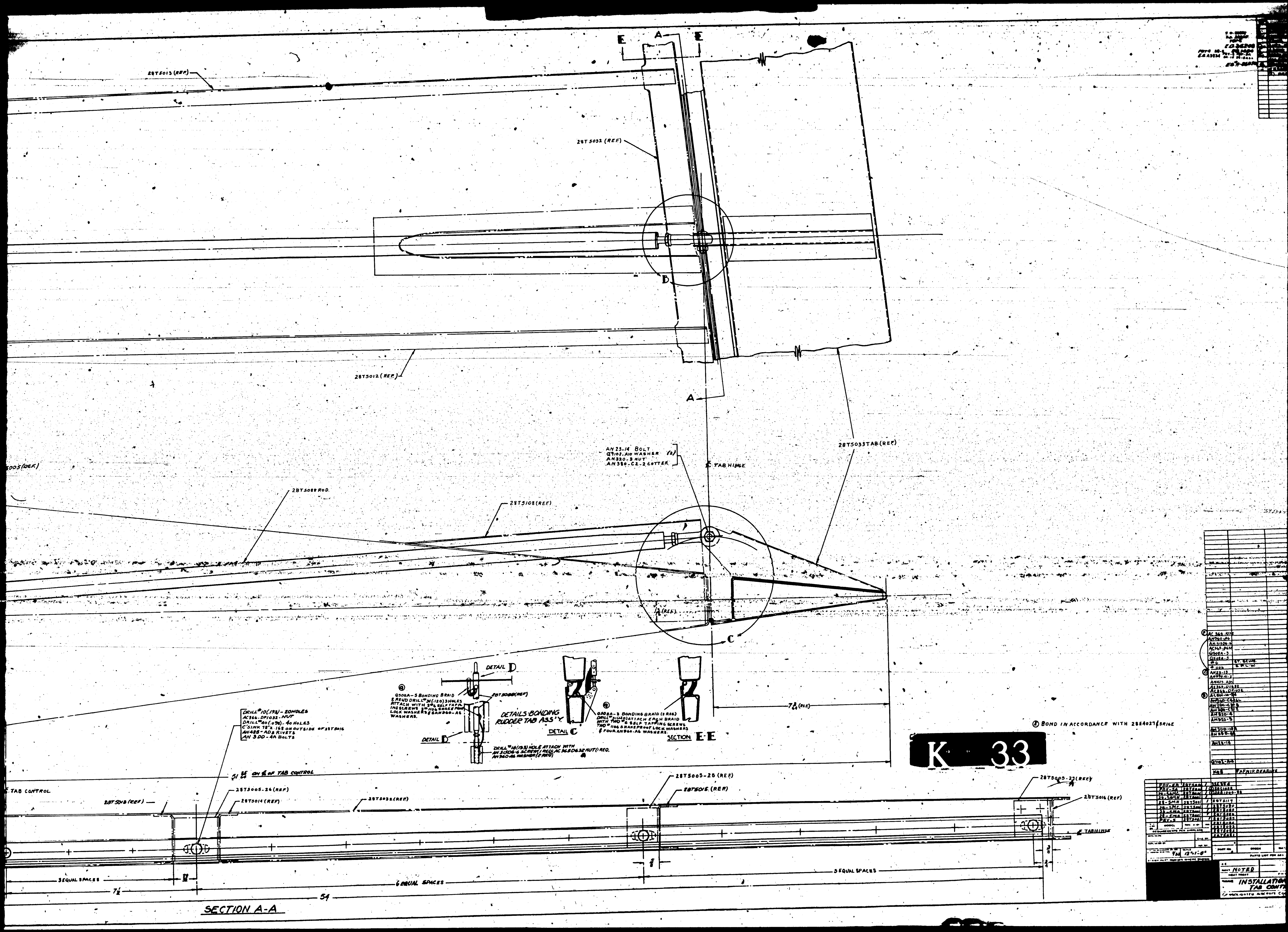
FILLET LINES
HALF SIZE



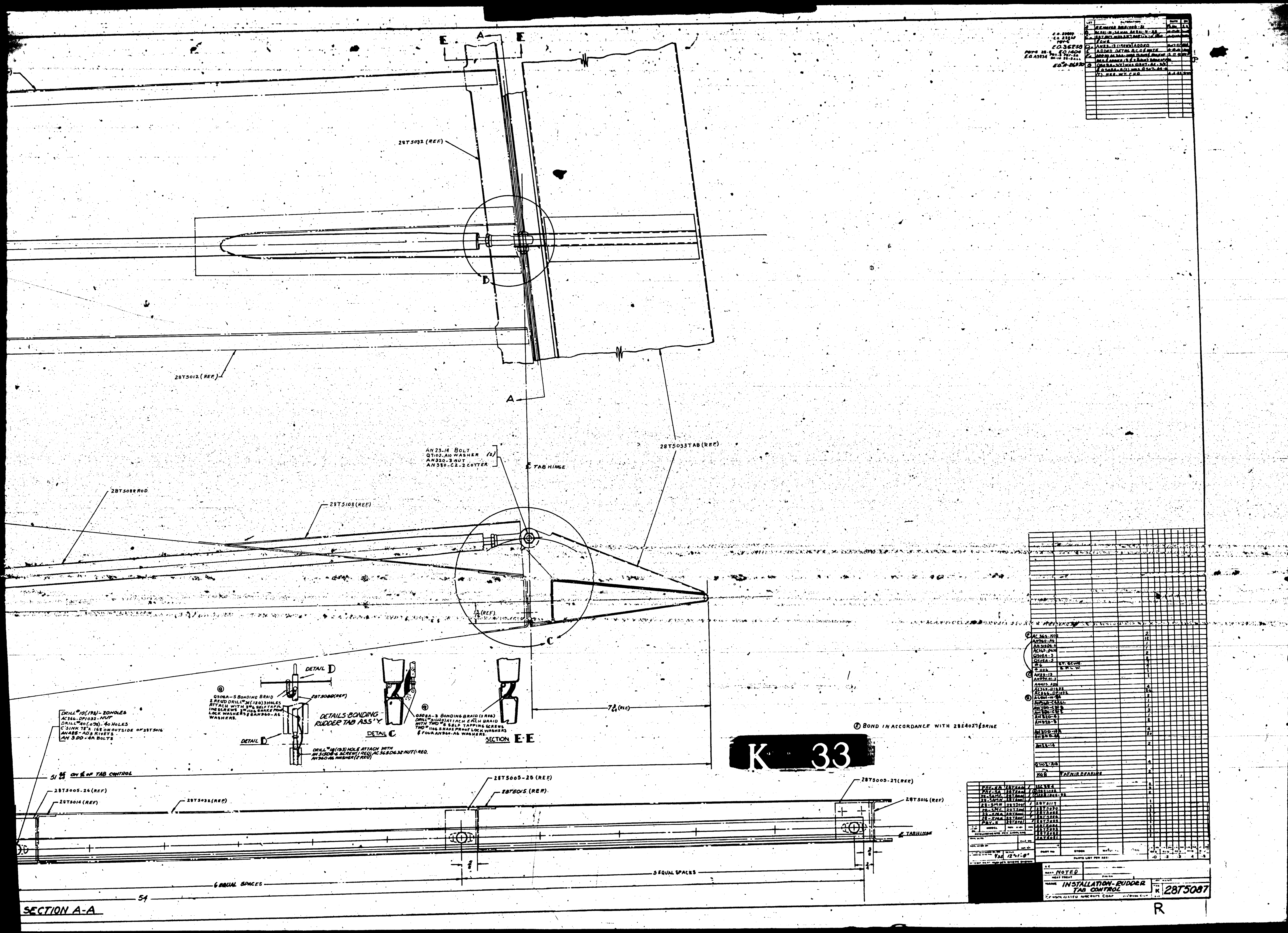
SECTION	H	I	J	K	L	M	N	O
-6	12 7/8	[illegible]	6 1/4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0	[illegible]	6 5/32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	6 1/32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	4 5/32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	[illegible]	[illegible]
20 TOP	7 1/4	[illegible]	1/4	3 3/8			[illegible]	
20 BOTTOM		[illegible]			[illegible]	1/4	7	[illegible]

FILLET LINES
HALF SIZE

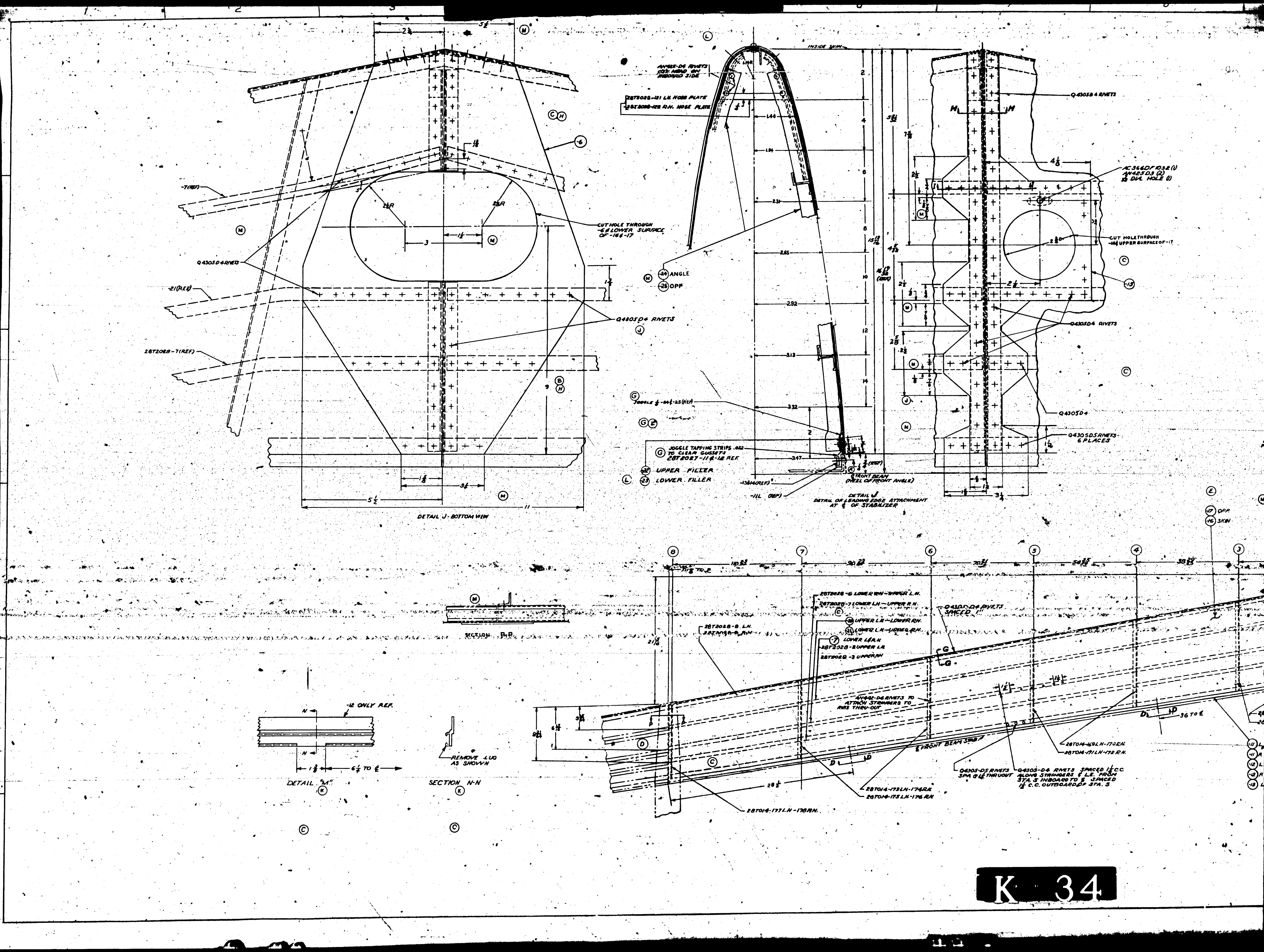

28C5090 (REF)
28B1168 (REF)
D
AN23-13 BOLT
G7102-A10 WASHER (2)
AN320-3 NUT
AN380-C2-2 COTTER
(REF) SEE 28T5001
AFTER PROPER ALIGNMENT OF TAB CONTROL
DRILL #12 (.189) THRU 2 HOLES
LOCATE FROM 28T5086
AN442-06 RIVETS
28T5005 (REF)
28T5083 LINK
28T5081 SCREW
28T5082 NUT
28T5084 SUPPORT
28T5085 ROD
28T5086 GUIDE
28B1168-12 (REF.)
22C534 HOUSING
KC-8 FAFNIR BEARING
28T5090 SPROCKET
AN320-4 NUT
AN380-C2-2 COTTER
28T5117
AN23-14 BOLT
G7102-A10 WASHER (2)
AN320-3 NUT
AN380-C2-2 COTTER
28C1032 COVER PLATE
AFTER TIGHTENING
28T5076 (REF)
28T5077 (REF)
TAB CONTROL
28T5005-24 (REF)
28T5005-23 (REF)
28T5012 (REF)
28T5013 (REF)
28T5011 (REF)
3 EQUAL SPACES
K 33



28T5013 (REF)
28T5032 (REF)
28T5012 (REF)
28T5033 TAB (REF)
AN 23-14 BOLT
AN 320-3 NUT
℄ TAB HINGE
28T5088 ROD
28T5108 (REF)
DETAIL D
DETAILS BONDING RUDDER TAB ASS'Y.
DETAIL C
SECTION E-E
ON ℄ OF TAB CONTROL
℄ TAB CONTROL
28T5005-26 (REF)
28T5014 (REF)
28T5005-25 (REF)
28T5016 (REF)
28T5005-27 (REF)
℄ TAB HINGE
3 EQUAL SPACES
6 EQUAL SPACES
5 EQUAL SPACES
54
SECTION A-A
K 33
NOTED
INSTALLATION
TAB CONT

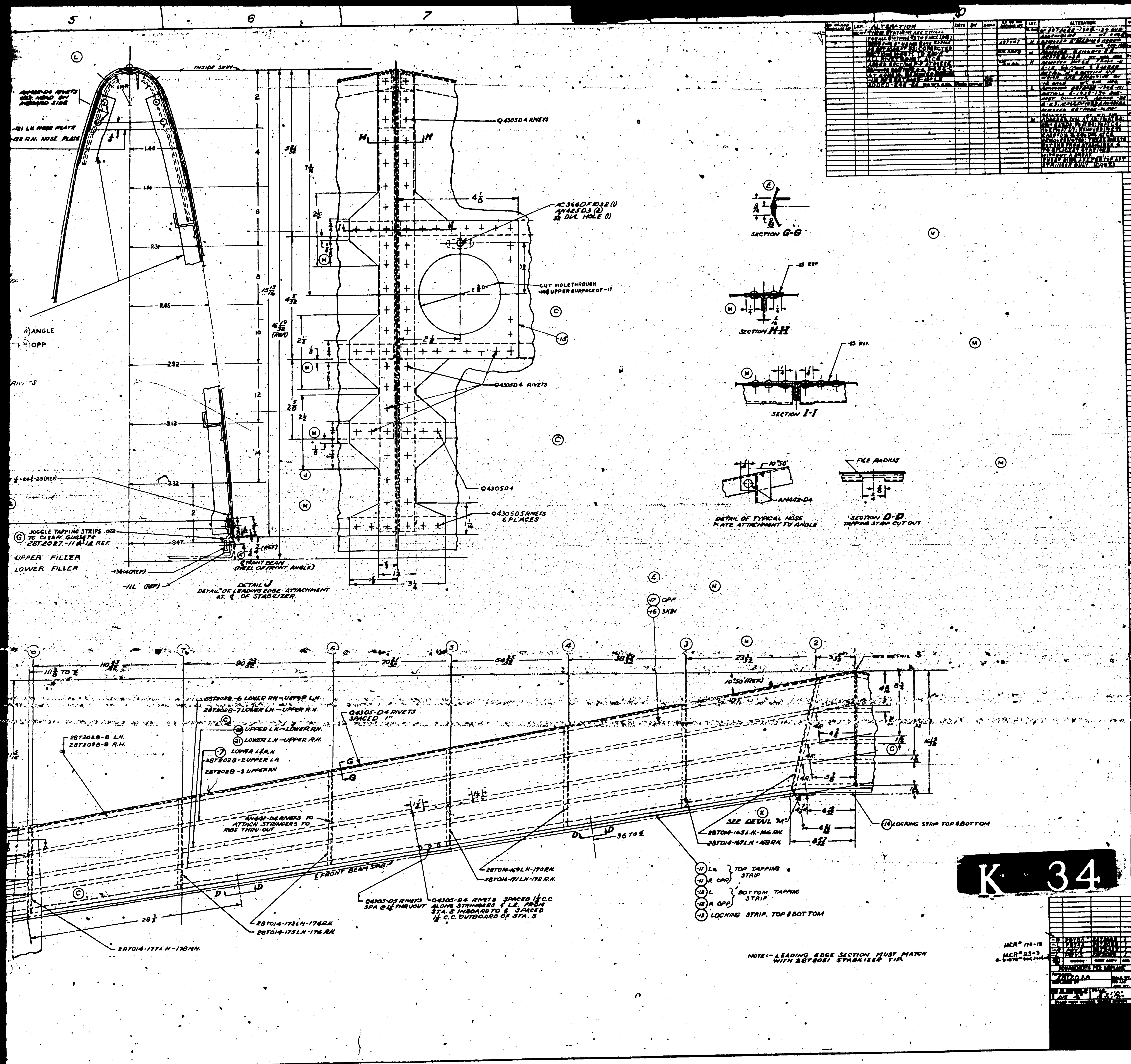


28T5032 (REF)
28T5012 (REF)
E
A
D
AN 23-14 BOLT
Q7102-A10 WASHER
AN 320-3 NUT
AN 380-C2-2 COTTER
℄ TAB HINGE
28T5033 TAB (REF)
28T5088 ROD
28T5108 (REF)
C
DETAIL D
DETAILS BONDING RUDDER TAB ASS'Y.
DETAIL C
SECTION E-E
Ⓔ BOND IN ACCORDANCE WITH 28E4027 SERIES
K 33
28T5005-26 (REF)
28T5014 (REF)
28T5005-27 (REF)
28T5016 (REF)
28T5015 (REF)
6 EQUAL SPACES
5 EQUAL SPACES
54
SECTION A-A
NOTED
INSTALLATION-RUDDER TAB CONTROL
K 28T5087
R



DETAIL J - BOTTOM VIEW
Q4305D4 RIVETS
CUT HOLE THROUGH -6# LOWER SURFACE OF -16&-17
UPPER FILLER
LOWER FILLER
ANGLE
OPP
DETAIL J
DETAIL OF LEADING EDGE ATTACHMENT AT ℄ OF STABILIZER
Q4305D5 RIVETS - 6 PLACES
SECTION B-B
-12 ONLY REF.
DETAIL "M"
REMOVE LUG AS SHOWN
SECTION N-N

K 34



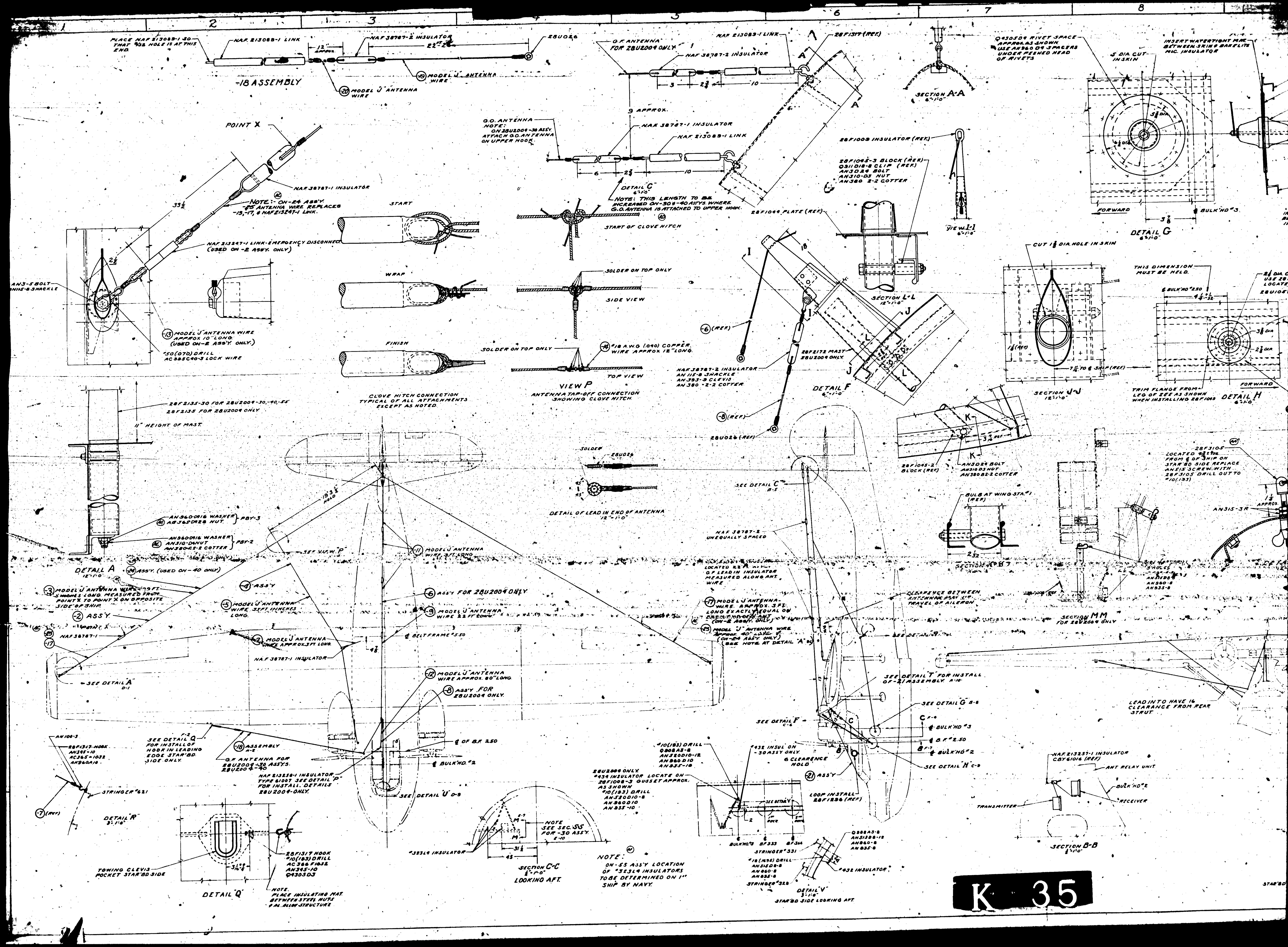
K 34

PARTS LIST PER ASSY.

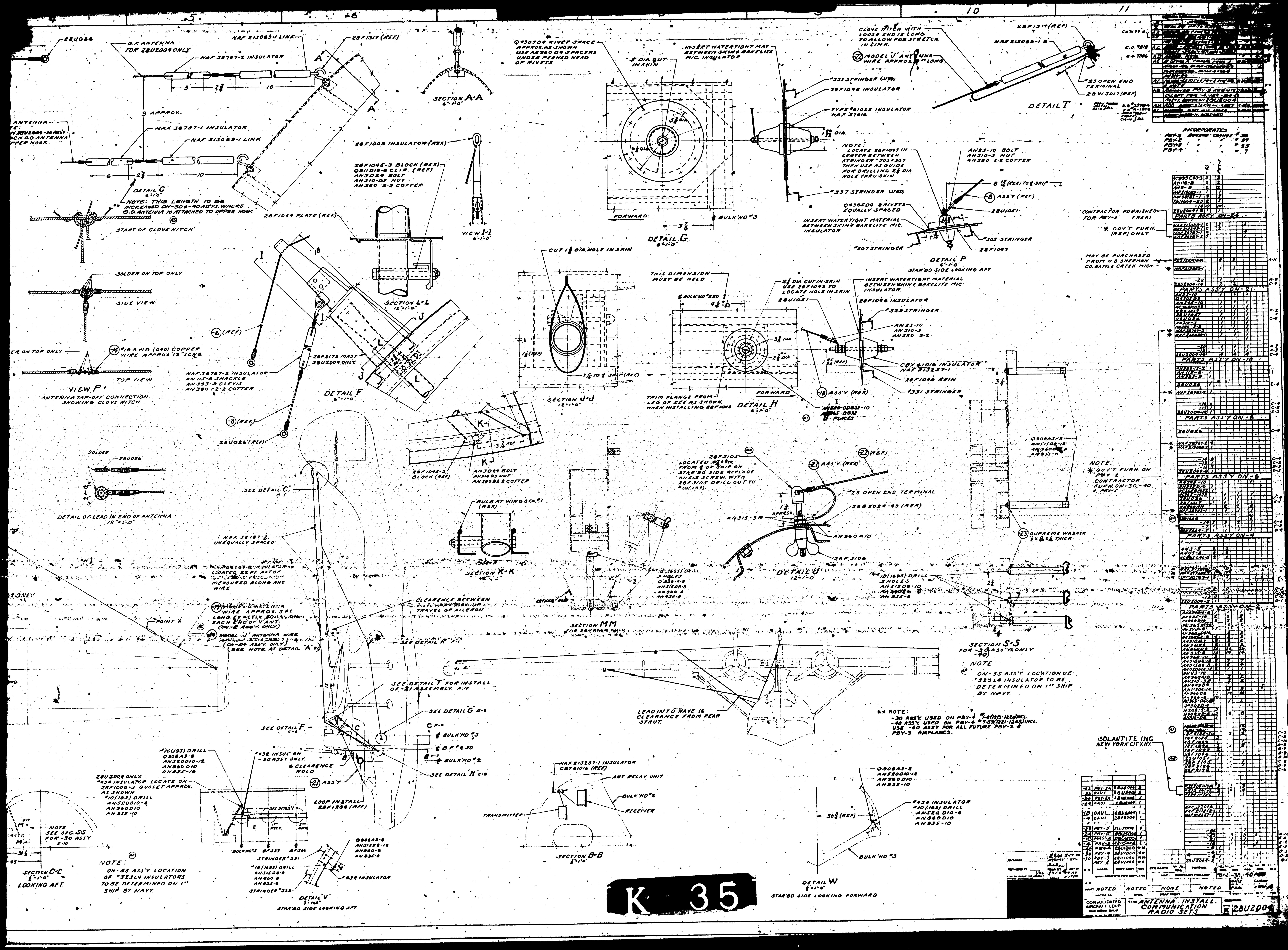
NAME LEADING EDGE ASS'Y. STRUCTURE - STABILIZER

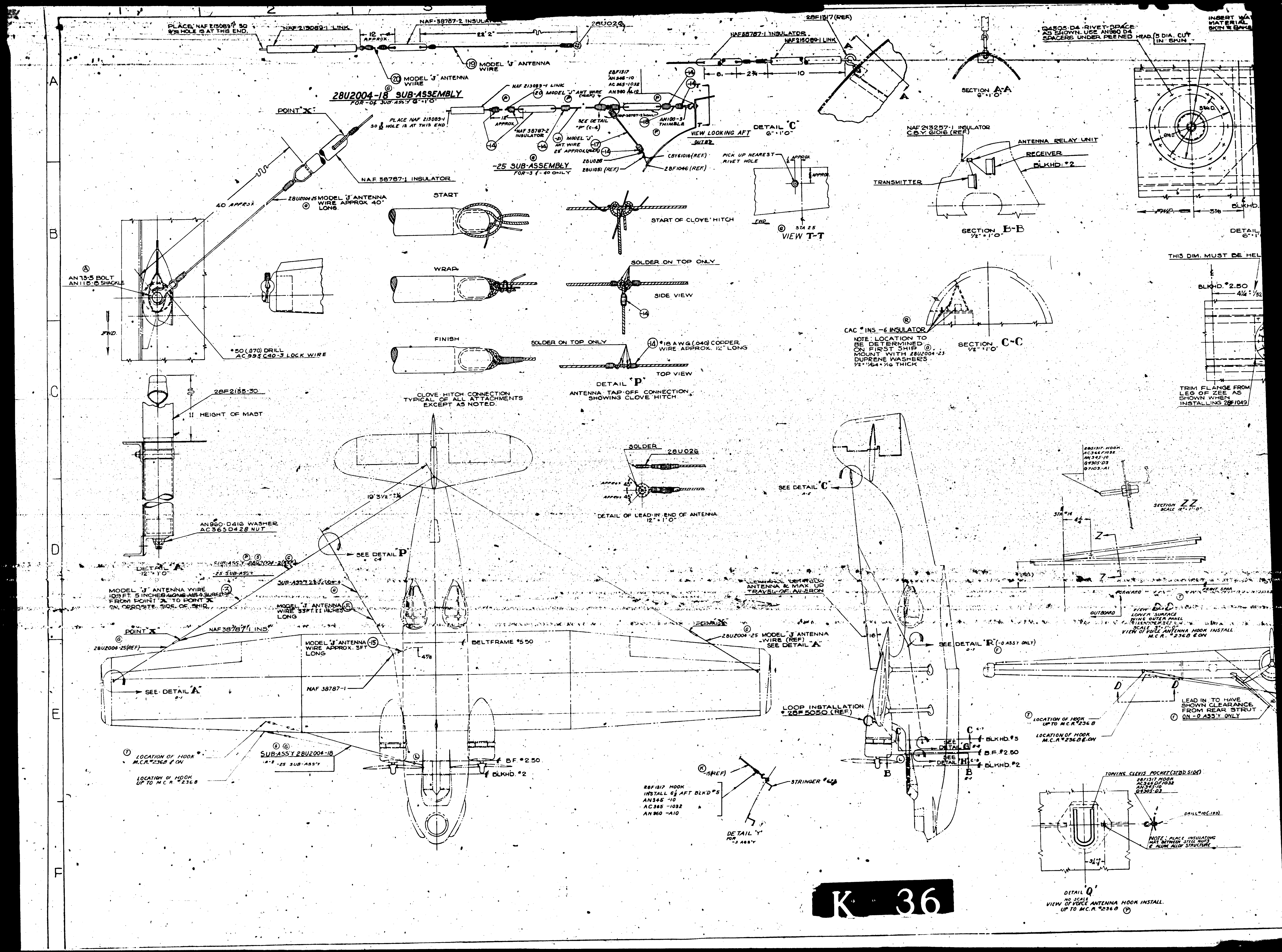
K 28T5129

CONSOLIDATED AIRCRAFT CORP.

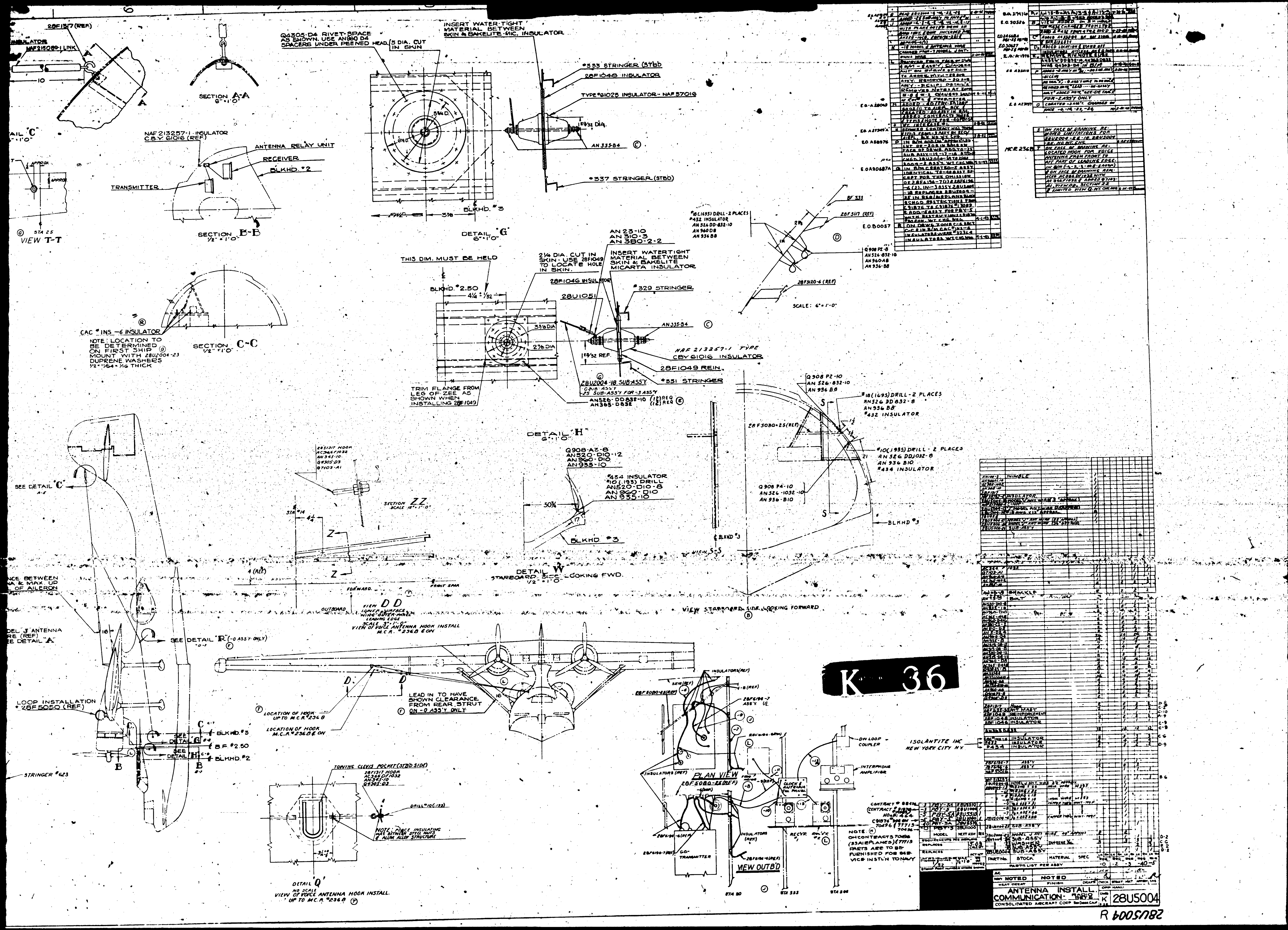


PLACE NAF 213083-1 SO THAT 1/8 HOLE IS AT THIS END.
NAF 213083-1 LINK
NAF 38787-2 INSULATOR
2BU026
-18 ASSEMBLY
MODEL "J" ANTENNA WIRE
G.F. ANTENNA FOR 2BU2004 ONLY
NAF 213083-1 LINK
NAF 38787-2 INSULATOR
2BF1317 (REF)
SECTION A-A
G.O. ANTENNA
NOTE: ON 2BU2004-30 ASSY. ATTACH G.O. ANTENNA ON UPPER HOOK.
NAF 38787-1 INSULATOR
NAF 213083-1 LINK
9 APPROX.
DETAIL "C"
NOTE: THIS LENGTH TO BE INCREASED ON -30 & -40 ASSYS. WHERE G.O. ANTENNA IS ATTACHED TO UPPER HOOK.
POINT X
NAF 38787-1 INSULATOR
NOTE:- ON -24 ASSY. -25 ANTENNA WIRE REPLACES -13, -17, & NAF213247-1 LINK.
NAF 213247-1 LINK-EMERGENCY DISCONNECT (USED ON -2 ASSY. ONLY)
AN3-5 BOLT
AN115-8 SHACKLE
MODEL "J" ANTENNA WIRE APPROX 10" LONG. (USED ON -2 ASSY. ONLY.)
#50 (.070) DRILL
AC383C40-3 LOCK WIRE
START
WRAP
FINISH
CLOVE HITCH CONNECTION TYPICAL OF ALL ATTACHMENTS EXCEPT AS NOTED.
START OF CLOVE HITCH
SOLDER ON TOP ONLY
SIDE VIEW
#18 A.W.G. (.040) COPPER WIRE APPROX 12" LONG.
TOP VIEW
VIEW P
ANTENNA TAP-OFF CONNECTION SHOWING CLOVE HITCH.
2BF1008 INSULATOR (REF.)
2BF1045-3 BLOCK (REF)
2BF1044 PLATE (REF)
VIEW I-I
SECTION L-L
2BF2172 MAST 2BU2004 ONLY.
NAF 38787-2 INSULATOR
AN115-8 SHACKLE
AN393-3 CLEVIS
AN380-2-2 COTTER
DETAIL F
2BU026 (REF)
Q430509 RIVET SPACE APPROX. AS SHOWN
5 DIA. CUT IN SKIN
FORWARD
BULK'HD #3
DETAIL G
CUT 1 1/8 DIA. HOLE IN SKIN
THIS DIMENSION MUST BE HELD.
SECTION J-J
TRIM FLANGE FROM LEG OF ZEE AS SHOWN WHEN INSTALLING 2BF1008
DETAIL H
2BF2135-30 FOR 2BU2004-30, -40, -55
2BF2135 FOR 2BU2004 ONLY
11" HEIGHT OF MAST.
DETAIL A
2BF1045-2 BLOCK (REF)
AN3024 BOLT
AN310-D3 NUT
AN380-2-2 COTTER
DETAIL OF LEAD IN END OF ANTENNA
SEE DETAIL "C"
NAF 38787-2 UNEQUALLY SPACED
BULB AT WING STA. #1 (REF)
SECTION K-K
2BF3105
AN315-3R
SECTION M-M FOR 2BU2004 ONLY
SEE VIEW "P"
MODEL "J" ANTENNA WIRE 3 FT. LONG
ASS'Y FOR 2BU2004 ONLY
MODEL "J" ANTENNA WIRE 22 FT. LONG
BELT FRAME #5.50
NAF 38787-1 INSULATOR
SEE DETAIL "A"
MODEL "J" ANTENNA WIRE APPROX. 80" LONG
ASS'Y FOR 2BU2004 ONLY.
SEE DETAIL "Q"
G.F. ANTENNA FOR 2BU2004-30 ASSYS. 2BU2004-40
BULK'HD. #2
SEE DETAIL "U"
SEE DETAIL "T" FOR INSTALL OF -21 ASSEMBLY.
SEE DETAIL "G"
SEE DETAIL "F"
SEE DETAIL "H"
LEAD INTO HAVE 16 CLEARANCE FROM REAR STRUT
NAF 213237-1 INSULATOR
ANT RELAY UNIT
TRANSMITTER
RECEIVER
SECTION B-B
DETAIL "R"
STRINGER #21
TOWING CLEVIS POCKET STAR'BD SIDE
DETAIL "Q"
2BF1317 HOOK
NOTE: PLACE INSULATING MAT. BETWEEN STEEL NUTS & AL. ALLOY STRUCTURE
#32314 INSULATOR
SECTION C-C LOOKING AFT.
NOTE: SEE SEC. S-S FOR -30 ASS'Y.
NOTE: ON -55 ASS'Y LOCATION OF #32314 INSULATORS TO BE DETERMINED ON 1st SHIP BY NAVY.
LOOP INSTALL 2BF1236 (REF)
#432 INSULATOR
DETAIL "V" STAR'BD SIDE LOOKING AFT.
K 35

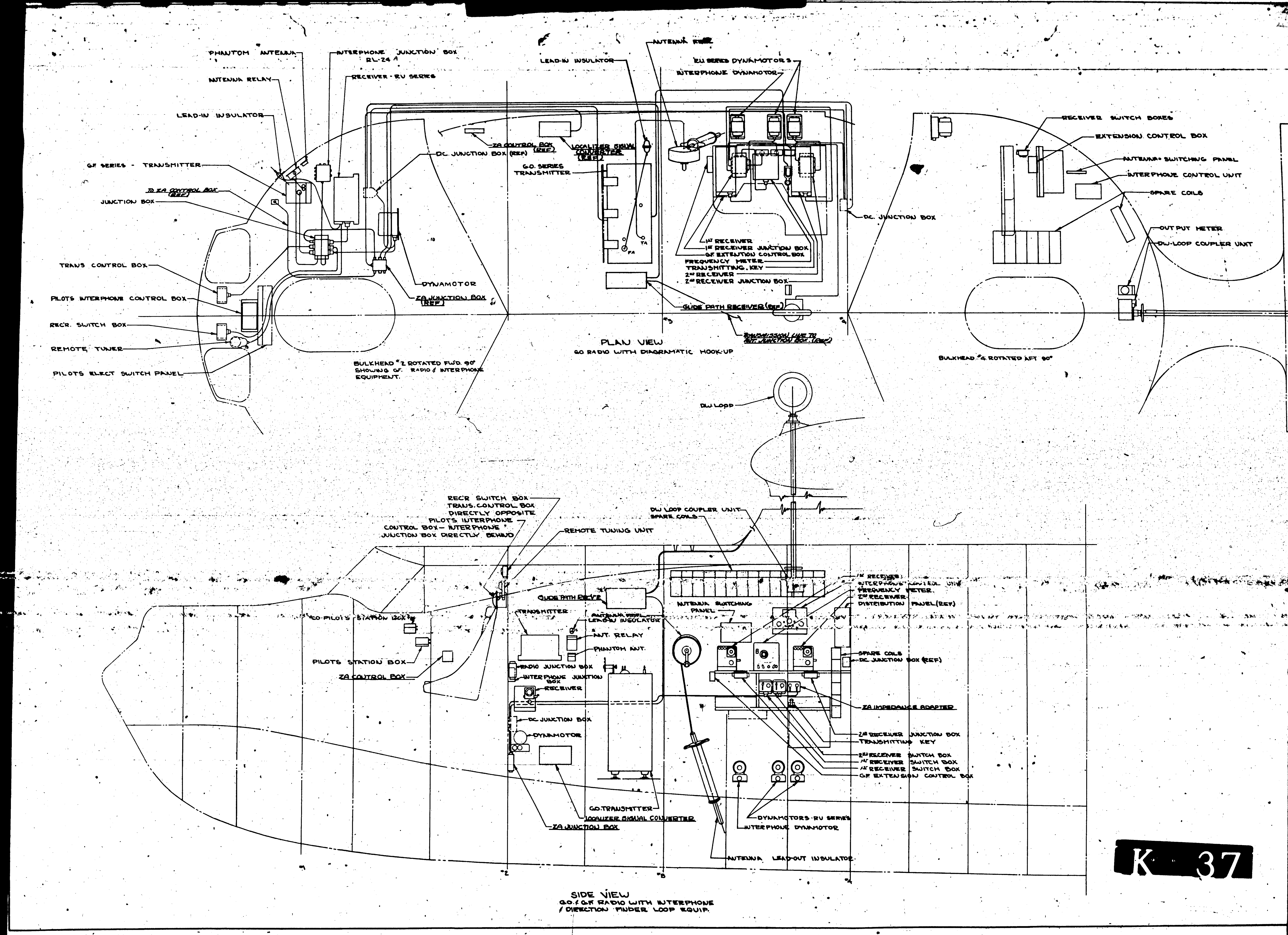

DETAIL "C"
NOTE: THIS LENGTH TO BE INCREASED ON-30 & -40 ASS'YS WHERE G.O. ANTENNA IS ATTACHED TO UPPER HOOK.
START OF CLOVE HITCH
SOLDER ON TOP ONLY
SIDE VIEW
TOP VIEW
VIEW P
ANTENNA TAP-OFF CONNECTION SHOWING CLOVE HITCH.
DETAIL OF LEAD IN END OF ANTENNA
SECTION A-A
SECTION L-L
VIEW I-I
DETAIL F
SECTION K-K
DETAIL G
SECTION J-J
DETAIL H
DETAIL P
STAR'BD SIDE LOOKING AFT
DETAIL T
DETAIL U
SECTION MM
SECTION S-S
SECTION C-C
LOOKING AFT.
NOTE: ON-55 ASS'Y LOCATION OF #32319 INSULATORS TO BE DETERMINED ON 1ST SHIP BY NAVY.
DETAIL V
STAR'BD SIDE LOOKING AFT
SECTION B-B
TRANSMITTER
RECEIVER
ART RELAY UNIT
DETAIL W
STAR'BD SIDE LOOKING FORWARD
PARTS ASS'Y ON-2
PARTS ASS'Y ON-4
PARTS ASS'Y ON-6
PARTS ASS'Y ON-8
PARTS ASS'Y ON-18
PARTS ASS'Y ON-21
PARTS ASS'Y ON-24
ISOLANTITE INC NEW YORK CITY, NY.
CONSOLIDATED AIRCRAFT CORP.
ANTENNA INSTALL. COMMUNICATION RADIO SETS
28U2004
K 35



PLACE NAF 213089-1 50 9/64 HOLE IS AT THIS END.
NAF 213089-1 LINK
NAF 38787-2 INSULATOR
28U026
22' 2"
12 APPROX.
19 MODEL "J" ANTENNA WIRE
20 MODEL "J" ANTENNA WIRE
28U2004-18 SUB-ASSEMBLY
FOR -04 SUB-ASS'Y 6"=1'0"
POINT "X"
N.A.F. 38787-1 INSULATOR
-25 SUB-ASSEMBLY
FOR -3 & -40 ONLY
28F1317
AN346-10
AC365-1032
AN960-A10
AN100-3 THIMBLE
VIEW LOOKING AFT
DETAIL "C" 6"=1'0"
CBY61016 (REF.)
28F1046 (REF.)
28U1051 (REF.)
28F1317 (REF)
NAF 38787-1 INSULATOR
NAF 213089-1 LINK
SECTION A-A 6"=1'0"
Q4505-D4 RIVET-SPACE AS SHOWN. USE AN960 D4 SPACERS UNDER PEENED HEAD.
INSERT WA MATERIAL SKIN & BAKE
40 APPROX
28U2004-25 MODEL "J" ANTENNA WIRE APPROX 40' LONG.
START
WRAP
FINISH
START OF CLOVE HITCH
SOLDER ON TOP ONLY
SIDE VIEW
TOP VIEW
14 #18 A.W.G. (.040) COPPER WIRE APPROX. 12" LONG
DETAIL "P"
ANTENNA TAP-OFF CONNECTION SHOWING CLOVE HITCH
PICK UP NEAREST RIVET HOLE
VIEW T-T
NAF 213257-1 INSULATOR C.B.Y. 61016 (REF)
ANTENNA RELAY UNIT
RECEIVER
BLKHD. #2
TRANSMITTER
SECTION B-B 1/2"=1'0"
AN 73-5 BOLT
AN 115-8 SHACKLE
#50 (.070) DRILL
AC 993 C40-3 LOCK WIRE
CAC #INS -6 INSULATOR
NOTE: LOCATION TO BE DETERMINED ON FIRST SHIP. MOUNT WITH 28U2004-23 DUPRENE WASHERS 1/2"×1/64-1/16 THICK
SECTION C-C 1/2"=1'0"
THIS DIM. MUST BE HEL
BLKHD. #2.50
TRIM FLANGE FROM LEG OF ZEE AS SHOWN WHEN INSTALLING 28F1049
28F2135-30
11 HEIGHT OF MAST
CLOVE HITCH CONNECTION TYPICAL OF ALL ATTACHMENTS EXCEPT AS NOTED.
SOLDER
28U026
DETAIL OF LEAD-IN END OF ANTENNA 12"=1'0"
SEE DETAIL "C"
AN960-D416 WASHER
AC365D428 NUT
DETAIL "A" 12"=1'0"
SEE DETAIL "P"
SECTION ZZ
MODEL "J" ANTENNA WIRE 109 FT. 5 INCHES FROM POINT "X" TO POINT "X" ON OPPOSITE SIDE OF SHIP.
MODEL "J" ANTENNA WIRE 33 FT. 11 INCHES LONG
ANTENNA & MAX. UP TRAVEL OF AILERON
POINT "X"
NAF 38787-1 INS.
28U2004-25 (REF)
MODEL "J" ANTENNA WIRE APPROX. 3FT LONG
BELTFRAME #5.50
NAF 38787-1
28U2004-25 MODEL "J" ANTENNA WIRE (REF) SEE DETAIL "A"
SEE DETAIL "A"
SEE DETAIL "R" (-0 ASS'Y ONLY)
LOOP INSTALLATION #28F5050 (REF.)
BLKHD. #5
B.F. #2.50
BLKHD. #2
SEE DETAIL "G"
SEE DETAIL "H"
LEAD IN TO HAVE SHOWN CLEARANCE FROM REAR STRUT ON -0 ASS'Y ONLY
LOCATION OF HOOK UP TO M.C.R. #2368 ON
LOCATION OF HOOK M.C.R. #2368 & ON
SUB-ASS'Y 28U2004-18
-25 SUB-ASS'Y
B.F. #2.50
BLKHD. #2
STRINGER
28F1317 HOOK
INSTALL 6 1/2 AFT BLKD #5
AN346-10
AC365-1032
AN960-A10
DETAIL "Y"
TOWING CLEVIS POCKET (STBD SIDE)
NOTE: PLACE INSULATING MAT. BETWEEN STEEL NUTS & ALUM. ALLOY STRUCTURE
DETAIL "Q"
NO SCALE
VIEW OF VOICE ANTENNA HOOK INSTALL. UP TO M.C.R. #2368
K 36



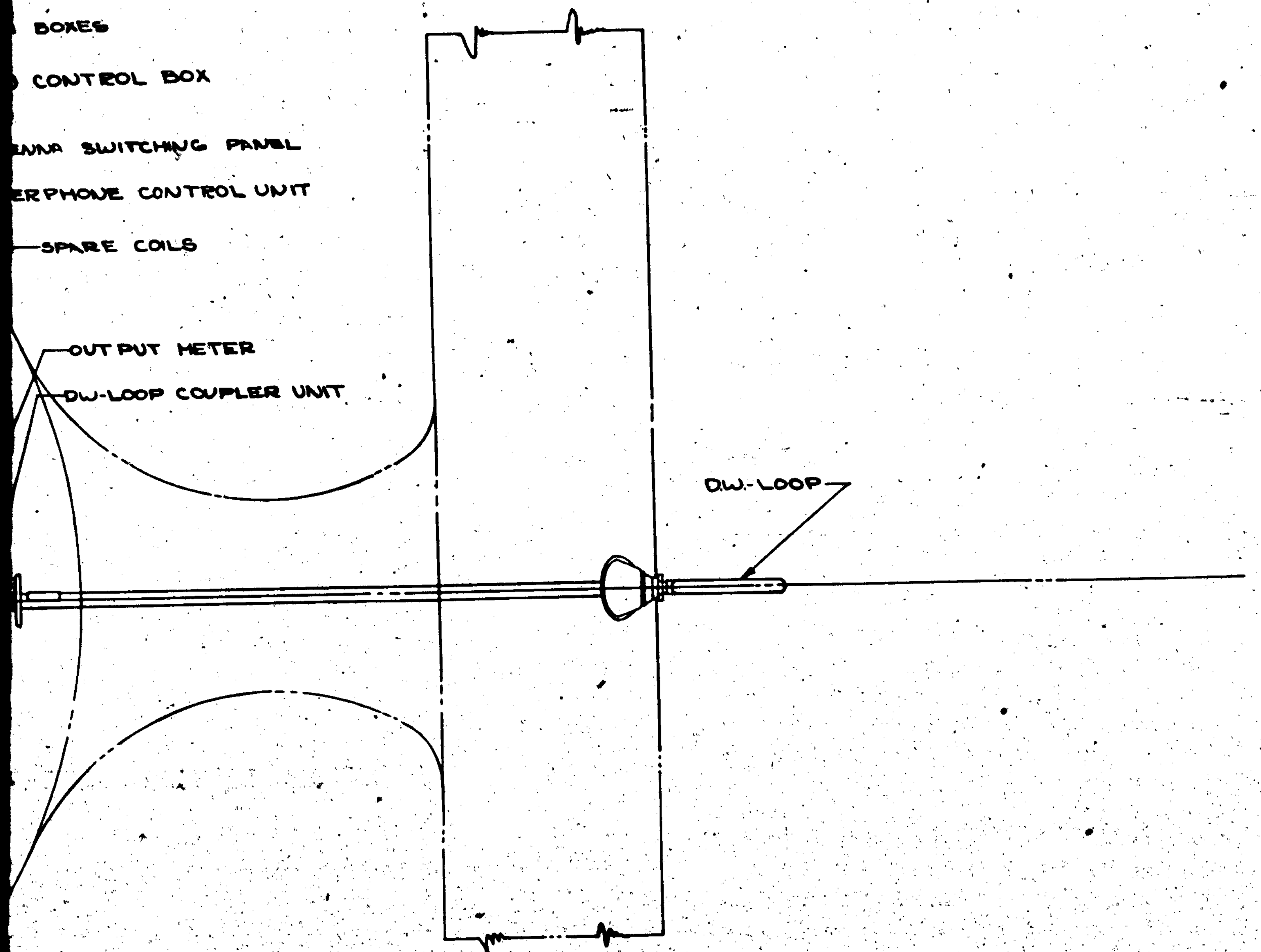
INSERT WATER-TIGHT MATERIAL BETWEEN SKIN & BAKELITE-MIC. INSULATOR
Q4305-D4 RIVET-SPACE AS SHOWN. USE AN960 D4 SPACERS UNDER PEENED HEAD.
5 DIA. CUT IN SKIN
#333 STRINGER (STBD)
28F1048 INSULATOR
TYPE #61025 INSULATOR - NAF 57016
AN 335-B4
#337 STRINGER (STBD)
BLKHD. #3
DETAIL "G" 6"=1'0"
SECTION A-A 6"=1'0"
NAF 213257-1 INSULATOR C.B.Y. 61016 (REF)
ANTENNA RELAY UNIT
RECEIVER
BLKHD. #2
TRANSMITTER
SECTION B-B 1/2"=1'0"
VIEW T-T
THIS DIM. MUST BE HELD
BLKHD. #2.50
2¼ DIA. CUT IN SKIN - USE 28F1049 TO LOCATE HOLE IN SKIN.
INSERT WATERTIGHT MATERIAL BETWEEN SKIN & BAKELITE MICARTA INSULATOR
28F1046 INSULATOR
28U1051
#329 STRINGER
AN 335-B4
NAF 213257-1 TYPE CBY 61016 INSULATOR
28F1049 REIN.
#331 STRINGER
28U2004-18 SUB-ASS'Y
TRIM FLANGE FROM LEG OF ZEE AS SHOWN WHEN INSTALLING 28F1049
AN526-DD832-10
AN365-D832
DETAIL "H" 6"=1'0"
CAC #INS-6 INSULATOR
NOTE: LOCATION TO BE DETERMINED ON FIRST SHIP. MOUNT WITH 28U2004-23 DUPRENE WASHERS
SECTION C-C 1/2"=1'0"
SEE DETAIL "C"
Q908-A3-8
AN520-D10-12
AN960-D10
AN935-10
#434 INSULATOR
BLKHD #3
DETAIL "W" STARBOARD SIDE LOOKING FWD. 1/2"=1'0"
VIEW STARBOARD SIDE LOOKING FORWARD
#18 (.1695) DRILL - 2 PLACES
AN 526 DD 832-8
AN 936 B8
#432 INSULATOR
#10 (.1935) DRILL - 2 PLACES
AN 526 DD1032-8
AN 936 B10
#434 INSULATOR
VIEW DD
SECTION Z-Z
SEE DETAIL "R" (-0 ASS'Y ONLY)
LOOP INSTALLATION #28F5050 (REF)
BLKHD. #3
B.F. #2.50
BLKHD. #2
STRINGER #623
LEAD IN TO HAVE SHOWN CLEARANCE FROM REAR STRUT ON -0 ASS'Y ONLY
LOCATION OF HOOK UP TO M.C.R. #2368
LOCATION OF HOOK M.C.R. #2368 & ON
DETAIL "Q" VIEW OF VOICE ANTENNA HOOK INSTALL. UP TO M.C.R. #2368
PLAN VIEW
VIEW OUTB'D
D/W LOOP COUPLER
INTERPHONE AMPLIFIER
ISOLANTITE INC. NEW YORK CITY N.Y.
K 36
ANTENNA INSTALL. COMMUNICATION
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.
28U5004
R 28U5004



PLAN VIEW
GO RADIO WITH DIAGRAMATIC HOOK-UP

SIDE VIEW
G.O. & G.F. RADIO WITH INTERPHONE & DIRECTION FINDER LOOP EQUIP.

K 37



PBY-5 & PBY5-A

GOV'T FURNISHED EQUIP.

REQ'D	ITEM	[illegible] DWG. NO.	NAF DWG. NO.
	G.F.9 RADIO EQUIP.		
1	TRANSMITTER	CBY 52063A	NAF 213281
1	TRANSMITTER MOUNTING BASE	CBY 52014	
1	RECEIVER	CBY 46051A	NAF 213248
1	RECEIVER MOUNTING BASE	CBY 46011	
1	TRANSMITTER CONTROL BOX	CBY 23087	NAF 213
1	RECEIVER SWITCH BOX	CBY 23096	NAF 213254
1	EXTENSION CONTROL BOX	CBY 23098	
1	ANTENNA RELAY UNIT	CBY 29076	NAF 213284
1	JUNCTION BOX	CBY 62018	NAF 213255
1	DYNAMOTOR UNIT	CBY 21454	NAF 213252
1	RECEIVER REMOTE TUNER	CBY 23012	NAF 213253
1	PHANTOM ANTENNA	CBY 66003	NAF 213841
24	COIL SET CONTAINERS	CBY 47029	NAF 213270-2
14	COILS - RU-12	CBY47068-69-70-71-72-75 & [illegible] (2 EACH)	
6	COILS - RU-12 (DUAL)	CBY47105, 06, & 88. (2 EA. REQD)	
4	COILS SET CONTAINERS	CBY47029	NAF213270-1
4	COILS - RU-14	CBY47068, 70, 72, & 75.	
	RL 24A INTERPHONE EQUIP.	MFG. DWG. No.	
1	INTERPHONE CONTROL UNIT	NI-120	
1	PILOTS CONTROL UNIT	NI-119	
1	DYNAMOTOR	NI-127	
1	INTERPHONE JUNCTION BOX	NI-126	
1	STATION DISTRIBUTION JUNCTION BOX	NI-125	
2	PILOT'S STATION BOXES	NI-121&-1	
6	STATION BOXES	NI-122	
9	MICROPHONES T-38 TYPE		NAF213264-8
9	MICROPHONE CLIPS		NAF213264-2
9	HEADSETS TYPE 38610		
1	SET CONNECTING CABLES		
	TYPE DW DIRECTION FINDER LOOP	MFG. DWG. No.	
1	COUPLER UNIT	CRR 50052	
1	COUPLER MOUNTING BASE	CRR 50053	
1	LOOP	CRR 69025	
1	AZIMUTH SCALE & ROTATING MECH.	CRR 69027	
1	SET CONNECTING CABLES		
1	OUT PUT METER		
	G.O. SERIES RADIO EQUIP.		
1	TRANSMITTER MODEL GO-5		NAF214262
1	TRANSMITTER MODEL GO-6		
1	TRANSMITTER MODEL GO-9		
2	R.U. SERIES RECEIVERS	CBY46048C	NAF 213248C
2	RU. RECEIVER MOUNTING BASES	CBY46048C	NAF 213248C
2	RU RECEIVER SWITCH BOXES	CBY23087	NAF 213254
2	RU RECEIVER DYNAMOTORS	CBY21441	NAF 213129
1	FLAME PROOF KEY		NAF 213265
1	FREQUENCY METER & BASE TYPE LM		NAF 213966
1	ANT. REEL WITH MODEL "J" WIRE & FISH		NAF 213424
1	LEAD OUT INSULATOR STANDPIPE & PLUG		NAF 67802-1
2	RU RECEIVER JUNCTION BOXES	CBY 62007A	NAF 213255-7
	ZA SERIES RADIO EQUIP.		
1	GLIDE PATH RECEIVER	CDE 46120	NAF 214671
1	LOCALIZER SIGNAL CONVERTER	CDE 20109	NAF 214672
1	ZA JUNCTION BOX	CDE 62025	NAF 214673
1	IMPEDANCE ADAPTER	CDE 30590	NAF 214674
[illegible]	CONTROL BOX	[illegible]	NAF 214675
1	FLEXIBLE TRANSMISSION LINE	[illegible]	
1	RIGID TRANSMISSION LINE	2195-1	

SEE 28F5085 FOR INSTALL OF INTERPHONE

SEE 28F5050 FOR INSTALL OF LOOP

MODEL OF TRANSMITTER USED IS OPTIONAL

INSTALLATION DRAWINGS (REF.)

28F060 TABLE RADIO OPERATOR'S
28F233 SEAT - RADIO OPERATOR'S
28F3065 SHELF - RADIO OPERATOR'S
28F5080 TRANSMITTER G-O. SERIES
28F5102 G.F. RADIO EQUIP. ON BULK'HD #2
28F5085 INTERPHONE EQUIP RL-24A
28F5050 R.D.F. LOOP DW TYPE
28F1019 REEL SUPPORT & STANDPIPE
28U2004 ANTENNA
28F1289 DYNAMOTORS RU SERIES
28F2055 COIL CONTAINERS RU & GF SERIES.
28F6025 GO-6 TRANSMITTER SUPPORT - LOWER.

K 37

NOTES

1. ALL GOVERNMENT FURN. EQUIP. TO BE C.A.C. INSTALL'D ON PBY5A ONLY.
2. NO NAVY RADIO EQUIP TO BE INSTALL. ON OA-10 MODEL AIRPLANES.

PBY-5A 28U5009 1
PBY-5 28U5009 1

REQUIREMENTS FOR AIRPLANE

SCALE 1½" = 1'-0"

PART NO. | STOCK | MATERIAL | SPEC.

PARTS LIST PER ASSY.

DATE 5-16-40 J.C.N.

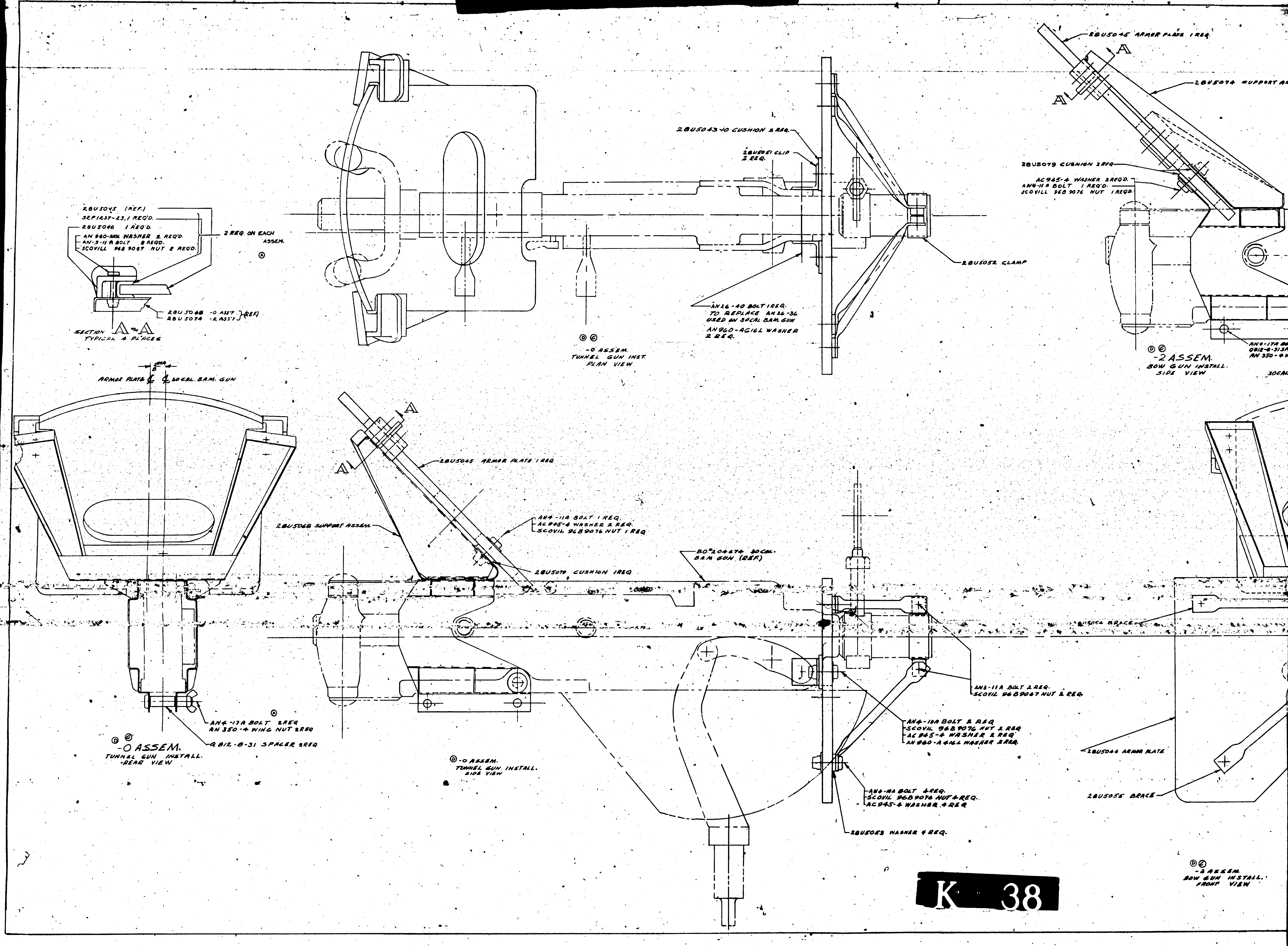
HEAT TREAT | FINISH

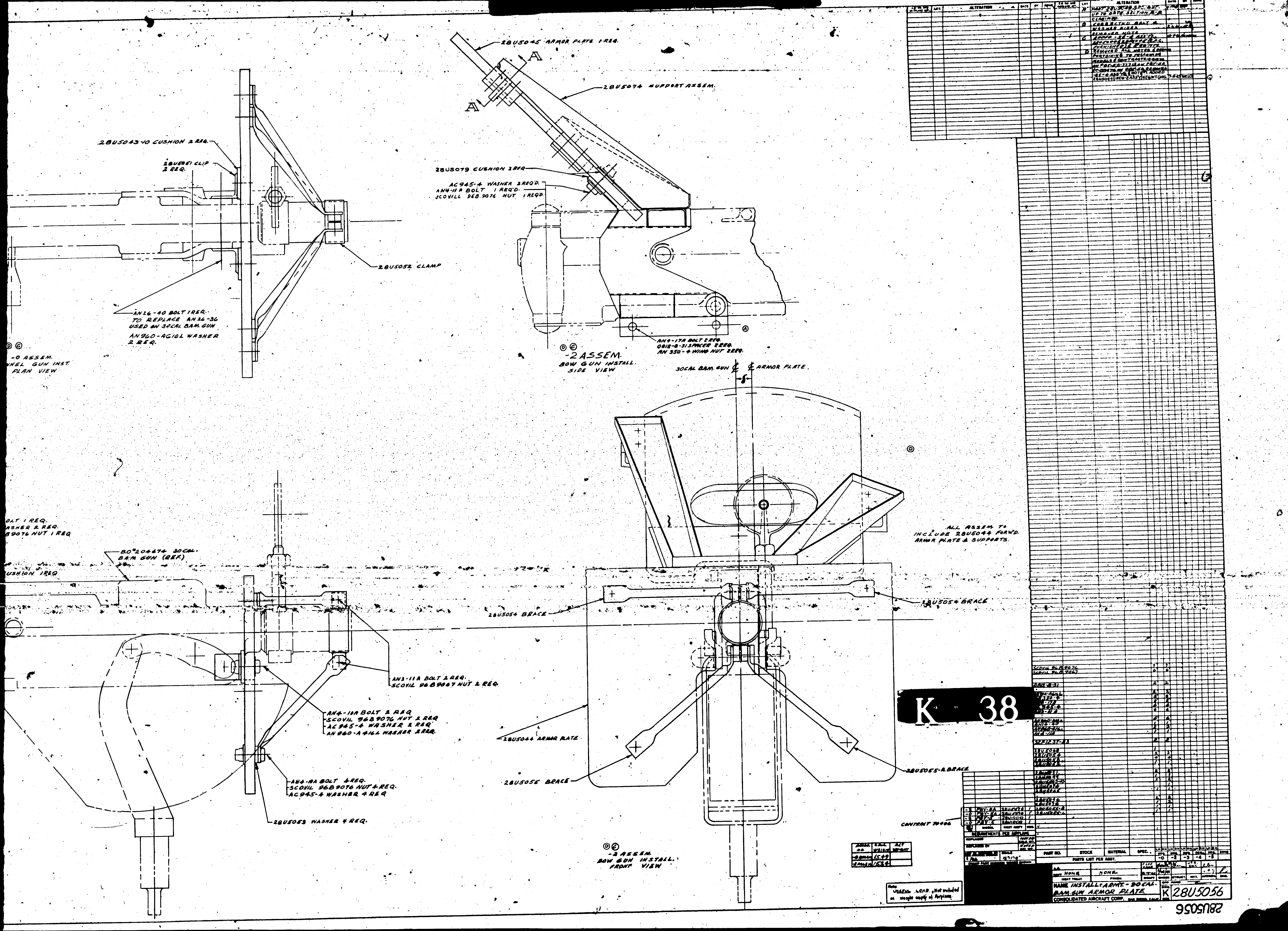
INSTALLATION - RADIO - COMMUNICATING EQUIP.

K 28U5009

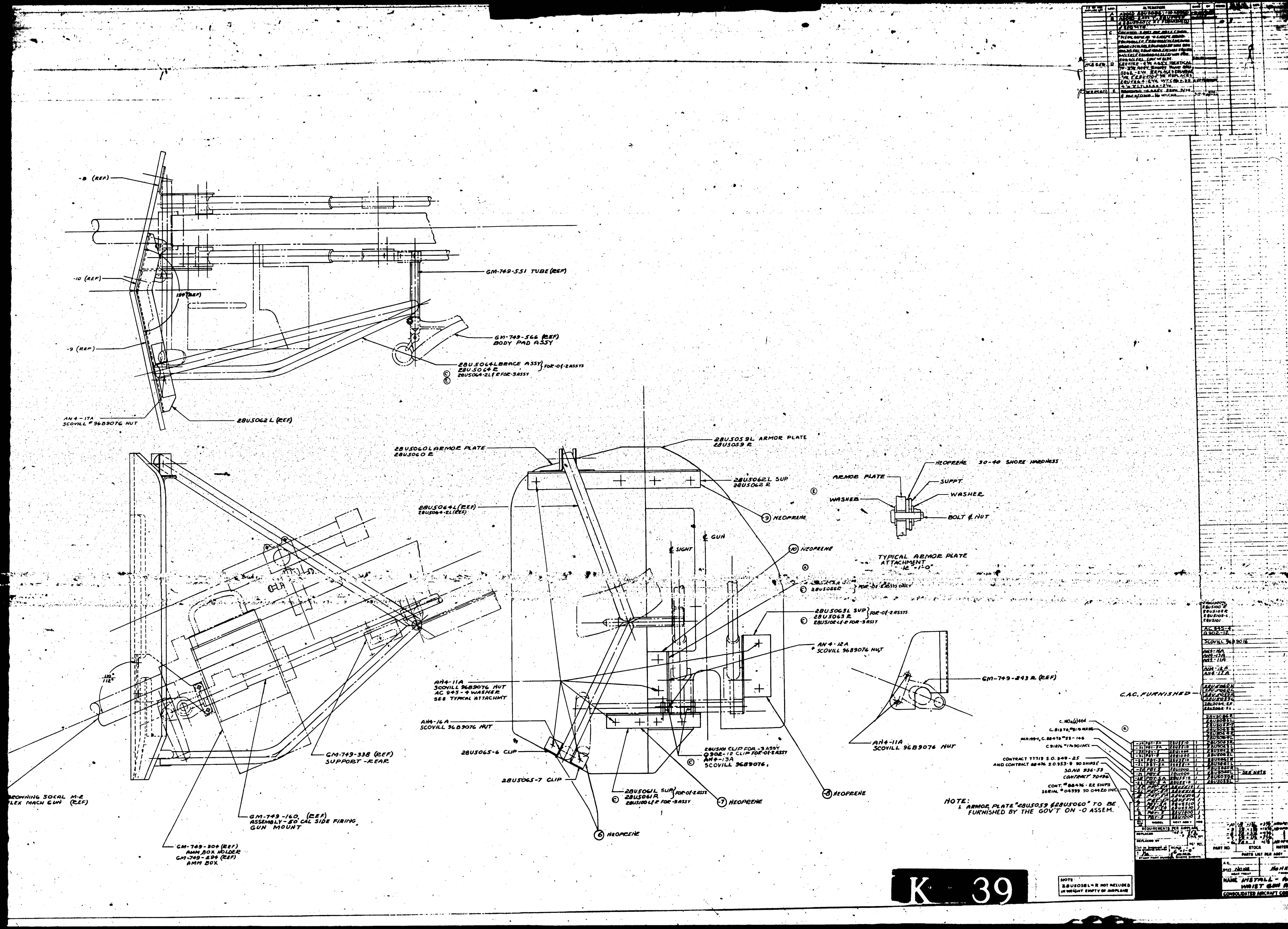
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

R

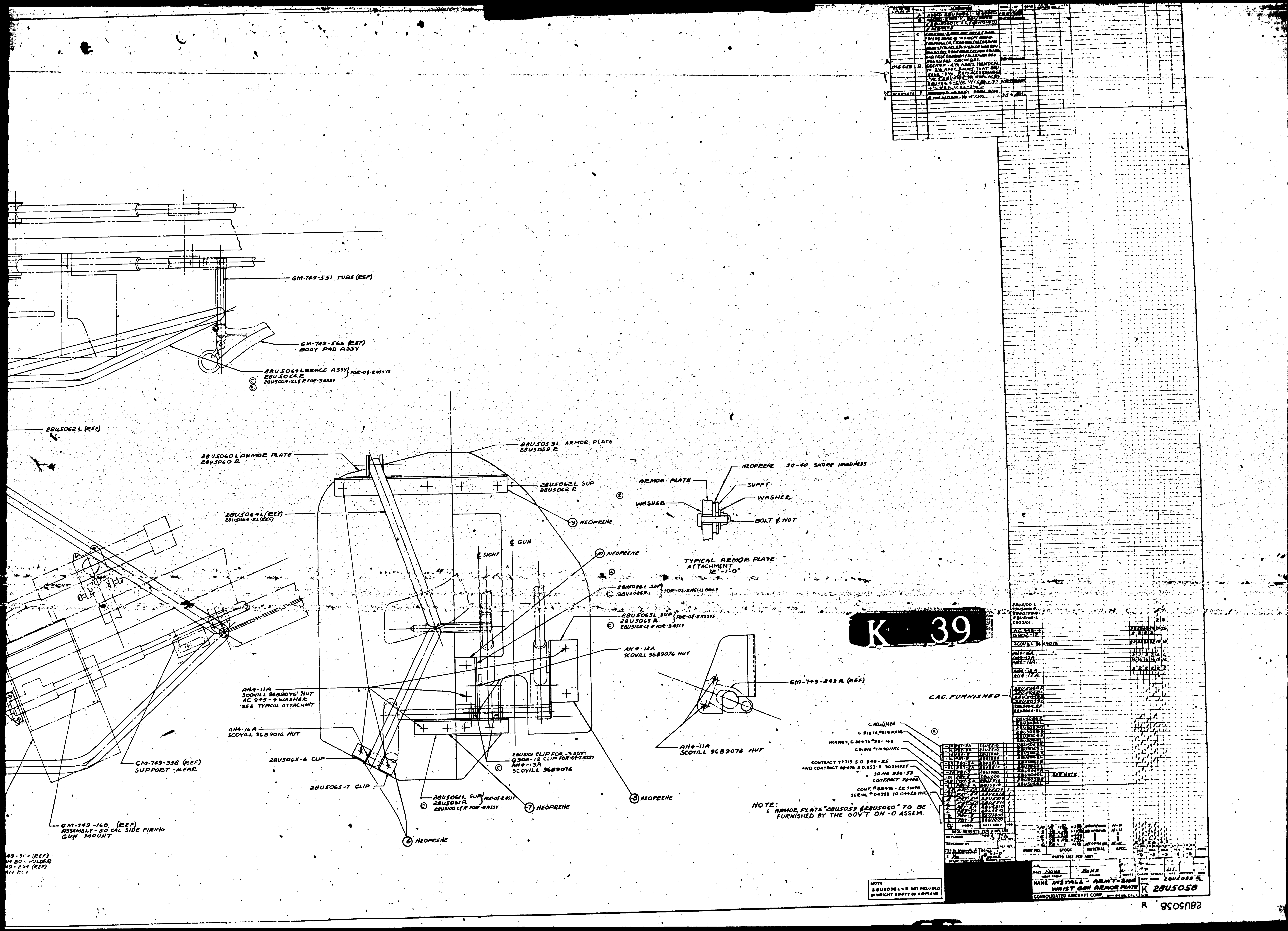

2BU5045 ARMOR PLATE 1 REQ.
2BU5074 SUPPORT A
2BU5043-10 CUSHION 2 REQ.
2BU5051 CLIP 2 REQ.
2BU5079 CUSHION 2 REQ
AC945-4 WASHER 2 REQ'D. AN4-11A BOLT 1 REQ'D. SCOVILL 96B 9076 NUT 1 REQ'D.
2BU5052 CLAMP
AN26-40 BOLT 1 REQ. TO REPLACE AN26-36 USED ON 30CAL. B.A.M. GUN
AN960-AC6L WASHER 2 REQ.
-0 ASSEM. TUNNEL GUN INST. PLAN VIEW
-2 ASSEM. BOW GUN INSTALL. SIDE VIEW
2BU5045 (REF.)
32F1237-23, 1 REQ'D.
2BU5046 1 REQ'D.
AN960-416L WASHER 2 REQ'D.
AN-3-11A BOLT 2 REQD.
SCOVILL 96B 9067 NUT 2 REQD.
2 REQ. ON EACH ASSEM.
2BU5068 -0 ASS'Y
2BU5074 -2 ASS'Y (REF)
SECTION A-A TYPICAL 4 PLACES
ARMOR PLATE ℄ ℄ 30 CAL. B.A.M. GUN
2BU5045 ARMOR PLATE 1 REQ
2BU5068 SUPPORT ASSEM.
AN4-11A BOLT 1 REQ. AC945-4 WASHER 2 REQ. SCOVIL 96B9076 NUT 1 REQ
2BU5079 CUSHION 1 REQ
B0*204674 30CAL. B.A.M. GUN (REF.)
AN4-17A BOLT 2 REQ
AN 350-4 WING NUT 2 REQ
Q812-8-31 SPACER 2 REQ
-0 ASSEM. TUNNEL GUN INSTALL. REAR VIEW
-0 ASSEM. TUNNEL GUN INSTALL. SIDE VIEW
AN3-11A BOLT 2 REQ. SCOVIL 96B9067 NUT 2 REQ.
AN4-10A BOLT 2 REQ SCOVIL 96B9076 NUT 2 REQ AC945-4 WASHER 2 REQ AN960-A416L WASHER 2 REQ
AN4-10A BOLT 4 REQ. SCOVIL 96B9076 NUT 4 REQ. AC945-4 WASHER 4 REQ
2BU5053 WASHER 4 REQ.
2BU5044 ARMOR PLATE
2BU5055 BRACE
BRACE
-2 ASSEM. BOW GUN INSTALL. FRONT VIEW
K 38

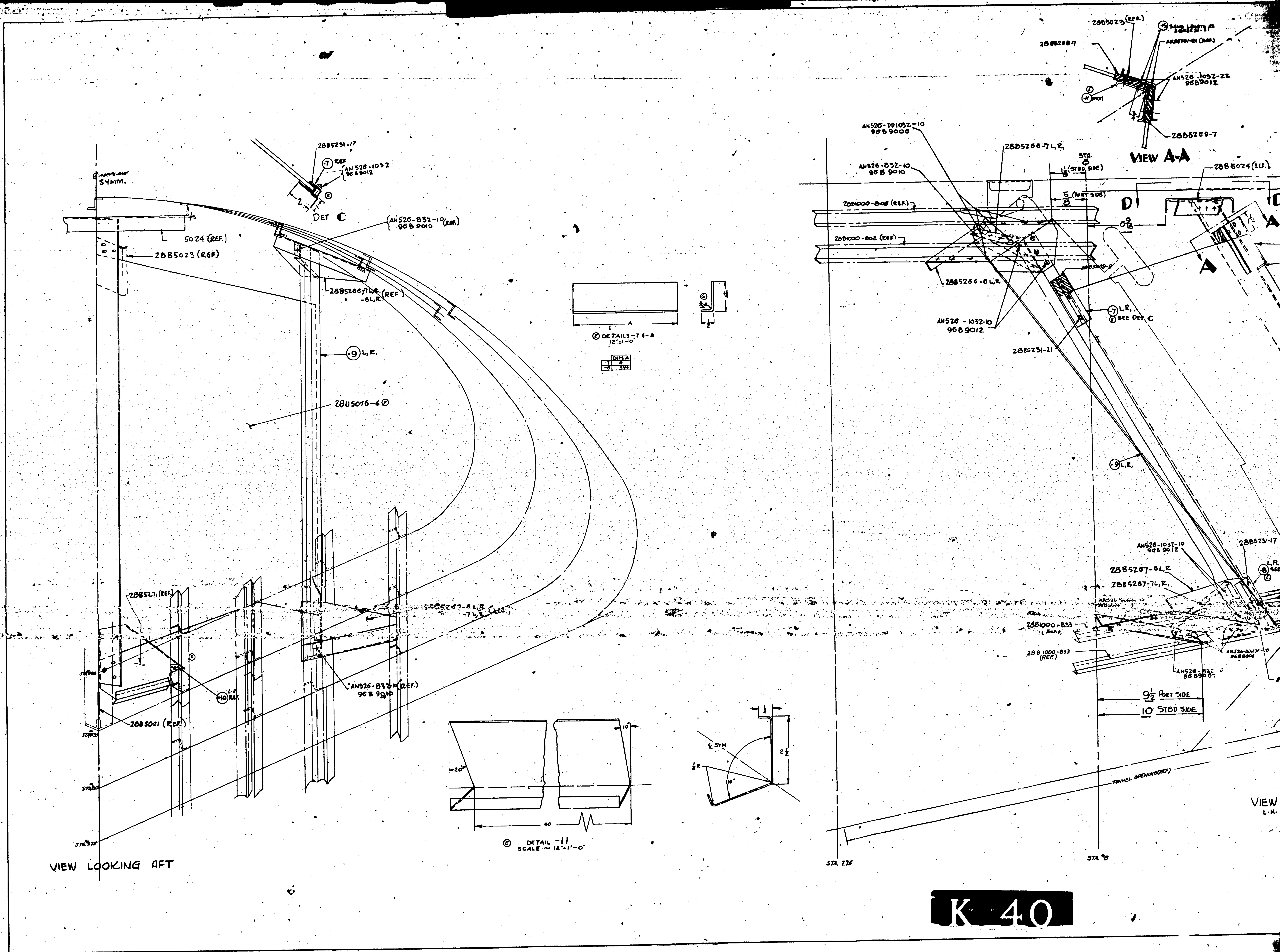


28U5045 ARMOR PLATE 1 REQ.
28U5074 SUPPORT ASSEM.
A
A
28U5043-10 CUSHION 2 REQ.
28U5081 CLIP 2 REQ.
28U5079 CUSHION 2 REQ.
AC 945-4 WASHER 2 REQ'D.
AN4-11 A BOLT 1 REQ'D.
SCOVILL 96B 9076 NUT 1 REQ'D.
28U5052 CLAMP
AN26-40 BOLT 1 REQ. TO REPLACE AN26-36 USED ON 30 CAL. B.A.M. GUN
AN960-AGIGL WASHER 2 REQ.
-0 ASSEM. TUNNEL GUN INST. PLAN VIEW
-2 ASSEM. BOW GUN INSTALL. SIDE VIEW
AN4-17A BOLT 2 REQ.
OB12-8-31 SPACER 2 REQ.
AN 350-4 WING NUT 2 REQ.
30 CAL. B.A.M. GUN ℄ ℄ ARMOR PLATE
BOLT 1 REQ.
WASHER 2 REQ.
96B9076 NUT 1 REQ.
B0#204874 30 CAL. B.A.M. GUN (REF)
CUSHION 1 REQ.
28U5054 BRACE
28U5054 BRACE
ALL ASSEM. TO INCLUDE 28U5044 FORW'D. ARMOR PLATE & SUPPORTS.
AN3-11A BOLT 2 REQ.
SCOVIL 96B9067 NUT 2 REQ.
AN4-10A BOLT 2 REQ
SCOVIL 96B9076 NUT 2 REQ
AC 945-4 WASHER 2 REQ
AN 960-A 416L WASHER 2 REQ.
28U5044 ARMOR PLATE
AN4-8A BOLT 4 REQ.
SCOVIL 96B9076 NUT 4 REQ.
AC 945-4 WASHER 4 REQ
28U5055 BRACE
28U5055-R BRACE
28U5053 WASHER 4 REQ.
-2 ASSEM. BOW GUN INSTALL. FRONT VIEW
CONTRACT 70466
K 38
NAME INSTALL-ARMT.- 30 CAL. B.A.M. GUN ARMOR PLATE
CONSOLIDATED AIRCRAFT CORP.
K 28U5056
28U5056

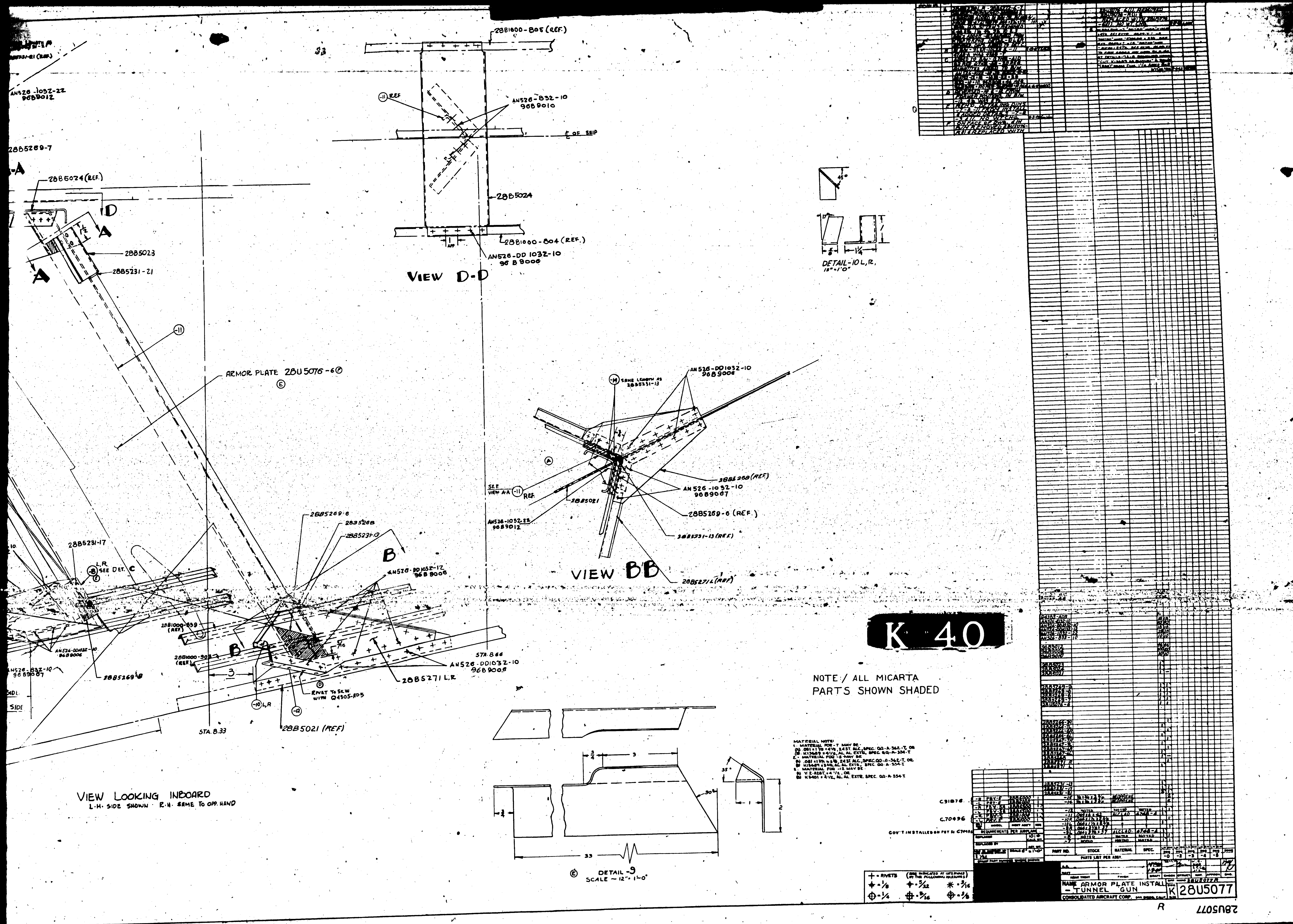


-8 (REF)
-10 (REF)
-9 (REF)
GM-749-551 TUBE (REF)
GM-749-566 (REF) BODY PAD ASSY
28U5064L BRACE ASSY 28U5064R } FOR-01-2 ASSYS
28U5064-2L (& R FOR-3 ASSY)
AN4-17A SCOVILL # 96B9076 NUT
28U5062L (REF)
28U5060L ARMOR PLATE 28U5060R
28U5059L ARMOR PLATE 28U5059R
28U5062L SUP 28U5062R
28U5064L (REF) 28U5064-2L (REF)
9 NEOPRENE
10 NEOPRENE
℄ GUN
℄ SIGHT
28U5063L SUP 28U5063R } FOR-01-2 ASSYS
28U5102-L-R FOR-3 ASSY
AN4-12A SCOVILL 96B9076 NUT
AN4-11A SCOVILL 96B9076 NUT AC 945-4 WASHER SEE TYPICAL ATTACHMT
AN4-16A SCOVILL 96B9076 NUT
28U5065-6 CLIP
28U5065-7 CLIP
28U5061L SUP 28U5061R } FOR-01-2 ASSYS
7 NEOPRENE
8 NEOPRENE
6 NEOPRENE
AN4-13A SCOVILL 96B9076
GM-749-338 (REF) SUPPORT-REAR
GM-749-160 (REF) ASSEMBLY-50 CAL SIDE FIRING GUN MOUNT
GM-749-304 (REF) AMM BOX HOLDER
GM-749-294 (REF) AMM BOX
BROWNING 50 CAL M-2 FLEX MACH GUN (REF)
ARMOR PLATE
NEOPRENE 30-40 SHORE HARDNESS
SUPPT.
WASHER
BOLT & NUT
TYPICAL ARMOR PLATE ATTACHMENT
GM-749-243 R (REF)
AN4-11A SCOVILL 96B9076 NUT
C.A.C. FURNISHED
NOTE: 1. ARMOR PLATE "28U5059 & 28U5060" TO BE FURNISHED BY THE GOV'T ON -0 ASSEM.
NOTE: 28U5058L-R NOT INCLUDED IN WEIGHT EMPTY OF AIRPLANE
REQUIREMENTS PER AIRPLANE
INSTALL - WAIST GUN
CONSOLIDATED AIRCRAFT CORP.
K 39


GM-749-551 TUBE (REF)
GM-749-566 (REF)
BODY PAD ASSY
28U5064L BRACE ASSY
28U5064R
FOR-01-2ASSYS
28U5064-2L & R FOR-3ASSY
28U5062L (REF)
28U5060L ARMOR PLATE
28U5060R
28U5059L ARMOR PLATE
28U5059R
28U5062L SUP
28U5062R
28U5064L (REF)
28U5064-2L (REF)
9 NEOPRENE
10 NEOPRENE
℄ SIGHT
℄ GUN
ARMOR PLATE
WASHER
NEOPRENE 30-40 SHORE HARDNESS
SUPPT
WASHER
BOLT & NUT
TYPICAL ARMOR PLATE ATTACHMENT
12" = 1'-0"
28U5063L SUP
28U5063R
FOR-01-2ASSYS
AN4-12A
SCOVILL 9689076 NUT
AN4-11A
SCOVILL 9689076 NUT
AC 945-4 WASHER
SEE TYPICAL ATTACHM'T
AN4-16A
SCOVILL 9689076 NUT
GM-749-843R (REF)
AN4-11A
SCOVILL 9689076 NUT
28U5065-6 CLIP
28U5065-7 CLIP
GM-749-338 (REF)
SUPPORT-REAR
28U5101 CLIP FOR-3ASSY
0302-12 CLIP FOR-01-2ASSY
AN4-13A
SCOVILL 9689076
28U5061L SUP
28U5061R
FOR-01-2ASSY
7 NEOPRENE
8 NEOPRENE
6 NEOPRENE
GM-749-160 (REF)
ASSEMBLY-50 CAL SIDE FIRING GUN MOUNT
C.A.C. FURNISHED
NOTE:
1. ARMOR PLATE "28U5059 & 28U5060" TO BE FURNISHED BY THE GOV'T ON -0 ASSEM.
K 39
NOTE:
28U5058L & R NOT INCLUDED IN WEIGHT EMPTY OF AIRPLANE
NAME INSTALL - ARM'T - SIDE WAIST GUN ARMOR PLATE
K 28U5058
CONSOLIDATED AIRCRAFT CORP.
R 28U5058

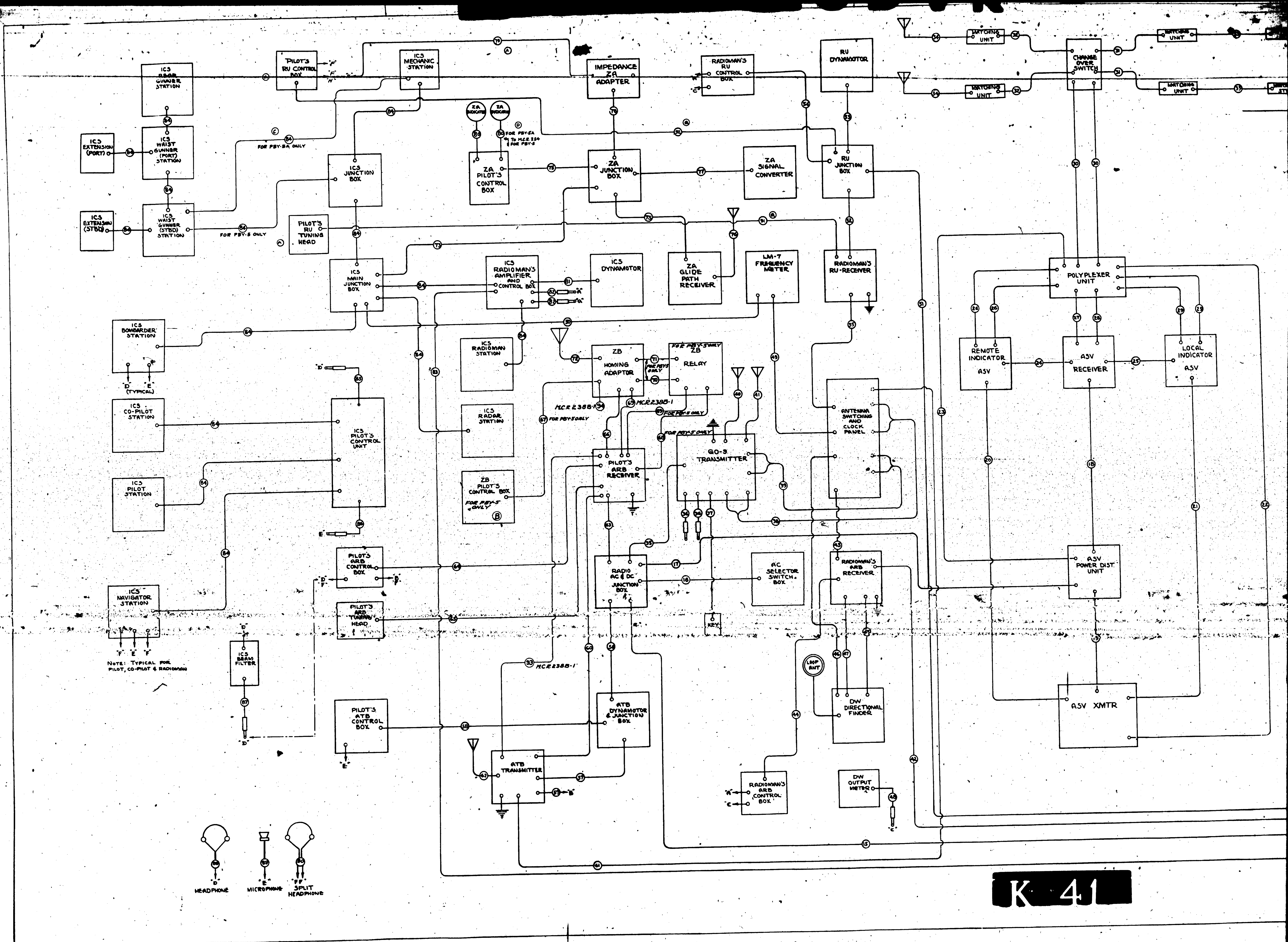


VIEW LOOKING AFT
DET. C
VIEW A-A
2BB5023 (REF)
2BB5021 (REF)
2BB5266-7L,R,
2BB5266-6L,R.
2BB5231-17
2BB5231-21
28U5076-6
AN526-832-10
96B9010
AN526-1032-10
96B9012
DETAIL -11
SCALE ~ 12"=1'-0"
DETAILS -7 & -8
2BB5267-6L,R.
2BB5267-7L,R.
2BB1000-808 (REF.)
2BB1000-802 (REF.)
2BB5024 (REF.)
9 1/2 PORT SIDE
10 STBD SIDE
TUNNEL OPENING (REF)
STA. 225
K 40

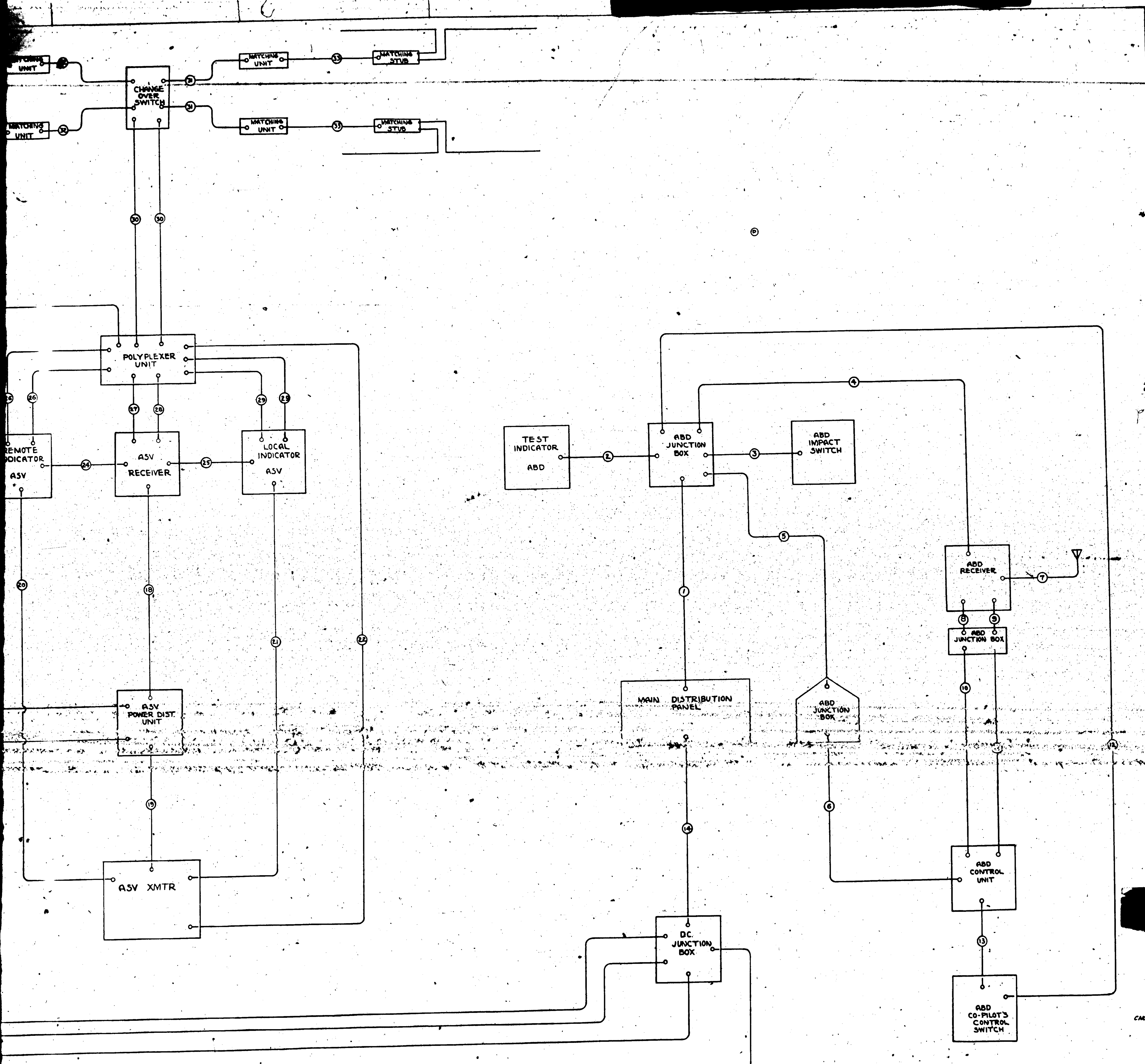


VIEW D-D
VIEW BB
VIEW LOOKING INBOARD
L-H- SIDE SHOWN · R-H- SAME TO OPP. HAND
ARMOR PLATE 28U5076-6
DETAIL-10 L,R.
DETAIL-9
SCALE ~ 12" = 1'-0"
NOTE:/ ALL MICARTA
PARTS SHOWN SHADED
K 40
2881000-805 (REF.)
2881000-804 (REF.)
AN526-832-10
96B9010
AN526-DD1032-10
96B9006
2885024
2885024 (REF.)
2885023
2885231-21
2885269-7
AN526-1032-22
96B9012
2885268 (REF.)
AN526-1032-10
96B9007
2885269-6 (REF.)
2885231-13 (REF.)
2885021
2885271 L (REF)
2885231-17
2885269-6
2885268
2885231-13
AN526-DD1032-12
96B9006
2881000-839 (REF.)
2881000-903 (REF.)
AN526-DD1032-10
96B9008
2885271 L.R
2885269-8
28B5021 (REF)
RIVET TO SKIN WITH Q4305-8D5
STA. 8.33
STA 8.66
℄ OF SHIP
ARMOR PLATE INSTALL - TUNNEL GUN
CONSOLIDATED AIRCRAFT CORP.
K 28U5077

28U5077



ICS REAR GUNNER STATION
ICS EXTENSION (PORT)
ICS WAIST GUNNER (PORT) STATION
ICS EXTENSION (STBD)
ICS WAIST GUNNER (STBD) STATION
FOR PBY-5A ONLY
FOR PBY-5 ONLY
PILOT'S RU CONTROL BOX
ICS MECHANIC STATION
ICS JUNCTION BOX
PILOT'S RU TUNING HEAD
ICS MAIN JUNCTION BOX
ZA INDICATOR
ZA PILOT'S CONTROL BOX
IMPEDANCE ZA ADAPTER
ZA JUNCTION BOX
ZA SIGNAL CONVERTER
RADIOMAN'S RU CONTROL BOX
RU DYNAMOTOR
RU JUNCTION BOX
MATCHING UNIT
CHANGE OVER SWITCH
ICS RADIOMAN'S AMPLIFIER AND CONTROL BOX
ICS DYNAMOTOR
ZA GLIDE PATH RECEIVER
LM-7 FREQUENCY METER
RADIOMAN'S RU-RECEIVER
POLYPLEXER UNIT
REMOTE INDICATOR ASV
ASV RECEIVER
LOCAL INDICATOR ASV
ICS BOMBARDIER STATION
(TYPICAL)
ICS RADIOMAN STATION
ZB HOMING ADAPTOR
FOR PBY-5 ONLY
ZB RELAY
ICS CO-PILOT STATION
ICS PILOT'S CONTROL UNIT
ICS RADAR STATION
MCR 2388-1
PILOT'S ARB RECEIVER
GO-9 TRANSMITTER
ANTENNA SWITCHING AND CLOCK PANEL
ICS PILOT STATION
ZB PILOT'S CONTROL BOX
FOR PBY-5 ONLY
PILOT'S ARB CONTROL BOX
RADIO AC & DC JUNCTION BOX
AC SELECTOR SWITCH BOX
RADIOMAN'S ARB RECEIVER
ASV POWER DIST. UNIT
ICS NAVIGATOR STATION
PILOT'S ARB TUNING HEAD
KEY
NOTE: TYPICAL FOR PILOT, CO-PILOT & RADIOMAN
ICS BEAM FILTER
LOOP ANT
DW DIRECTIONAL FINDER
ASV XMTR
ATB DYNAMOTOR & JUNCTION BOX
PILOT'S ATB CONTROL BOX
ATB TRANSMITTER
RADIOMAN'S ARB CONTROL BOX
DW OUTPUT METER
HEADPHONE
MICROPHONE
SPLIT HEADPHONE
K 41



1. 28E5322-742, -738, -740
2. 28F6955-1 (FOR PBY-5) -32 (FOR PBY-5A)
3. 28F6882-2
4. 28F6881-2
5. 28E5322-743, -742
6. * GFE - ABD POWER CABLE
7. 28F5421
8. 28F5406-7
9. 28F5404-7
10. 28F5406-6
11. 28F5404-6
12. 28F6955-2
13. 28F5407-2
14. 28E5322-114, -112
15. 28E5322-55, -56
16. 28E5322-317, -318, -319, -320
17. 28F5396-2
18. 28F6939-2
19. 28F6939-0
20. 28F6941-8 (FOR PBY-5) -28 (FOR PBY-5A)
21. 28F6941-6
22. 28F6397
23. 28F6398
24. 28F5395-3 (FOR PBY-5) -5 (FOR PBY-5A)
25. 28F5395-4
26. 28F6941-3 (FOR PBY-5) -30 (FOR PBY-5A)
27. 28F6941-10 (FOR PBY-5) -32 (FOR PBY-5A)
28. 28F6940-9 (FOR PBY-5) -12 (FOR PBY-5A)
29. 28F6941-7 (FOR PBY-5) -29 (FOR PBY-5A)
30. 28F6940-6 (FOR PBY-5) -11 (FOR PBY-5A)
31. 28F6940-7
32. 28F6940-8
33. 28F7342-7
34. 28F7342-6
35. 28F6956
36. * GFE - SIDE TONE CABLE
37. * GFE - ICW - KEY CABLE
38. 28F6955-17
39. 28F5441
40. 28F6955-15
41. 28F6955-16
42. 28F5487-8
43. 28F6955-5
44. 28F5485-9
45. 28F5448-2
46. 28F7506
47. 28F6955-14
48. 28F5444
49. 28F6955-13
50. 29F6508-4
51. 29F6498-6
52. 29F6493-6
53. 29F6500
54. 29F6497
55. 28F6955-9
56. 28F5487-6
57. 28F5484
58. 28F5486
59. * 29F6861-2 (SIDE TONE CABLE)
60. 28F6955-19
61. 28F6955-8
62. 28F6955-7
63. 28F5487-7
64. 28F5486-8
65. 29F6503-3
66. 29F6677-12
67. 29F6676-
68. 28F6955-3
69. 29F6834-3 (FOR PBY-5 #90-516) -4 (FOR PBY-5 #517 ON & PBY-5A CNO 464)
70. 29F6836-3 (FOR PBY-5 #90-516) -4 (FOR MCR 238-C)
71. 29F6678-12
72. 29F6835-3 (FOR PBY-5 #90-516) -4 (FOR PBY-5 #517 ON & PBY-5A CNO 464)
73. 29F6403-3
74. 29F6402-3
75. 29F6405-
76. 28F5221-7, -8, -9, -10, -11
77. 29F6404-3
78. 28F6872-8
79. 28F6872-10
80. 29F6906-
81. * GFE - ICS - DYNAMOTOR CABLE - CABLE
82. * GFE - RECEIVER PLUG & CABLE - ICS
83. * GFE - ICS - POWER CABLE
84. 28E5763
85. * GFE - INTRASQUADRON - RCVR - PLUG - CABLE
86. * GFE - INTRASQUADRON - TRANS - PLUG - CABLE
87. * GFE - BEAM FILTER PLUG & CABLE
88. * GFE - HEAD PHONES & PLUG -
89. * GFE - MICROPHONE & PLUG -
90. * GFE - SPLIT HEAD PHONE & PLUG
91. 29F6503-4
92. 29F6497-2
93. 28F6965-31
94. 28F6677-16.

NOTE:- No S/O REQUIRED
(REFERENCE PRINT ONLY)

K 41

1. NOTE:- FOR GENERAL ARRANGEMENT OF EQUIPMENT SEE 28U5103. FOR CORDAGE INSTALLATION SEE 28F6955.
2. ASTERISK (*) DENOTES GOVT. FURN. EQUIP.

CNO ... 464 TO MCR 270-12 C 91876 - 905 ON

MODEL	NEXT ASSY	REQ
PBY-5A	28F6955	1
PBY-5	28F6955	1

REQUIREMENTS PER AIRPLANE

REPLACES — CALC. WT.
REPLACED BY — ACT. WT.
SCALE —
STAMP PART NUMBER WHERE SHOWN

PART NO. | STOCK | MATERIAL | SPEC. — PARTS LIST PER ASSY. -0 -2 -3 -4 -5 ZONE

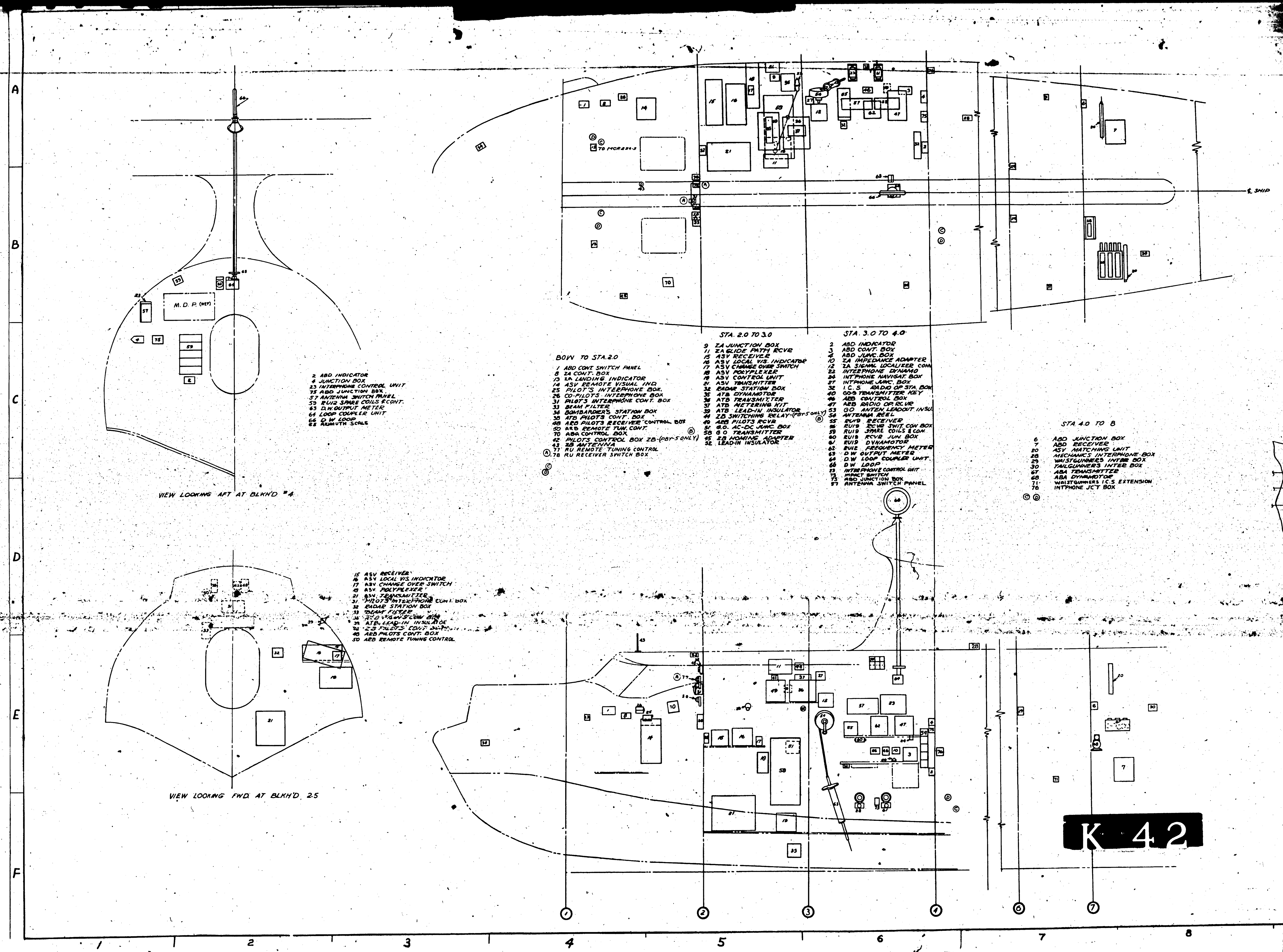
MAT. NONE — FINISH NONE — HEAT TREAT

NAME DIAGRAM - FURN - RADIO CORDAGE

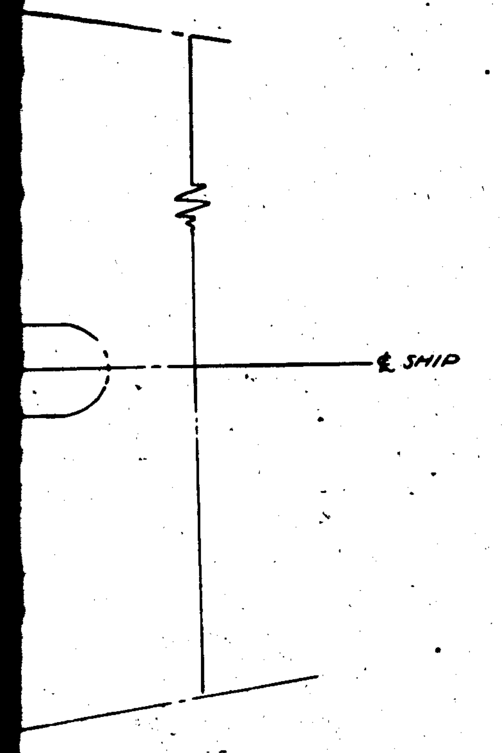
K 28U5099

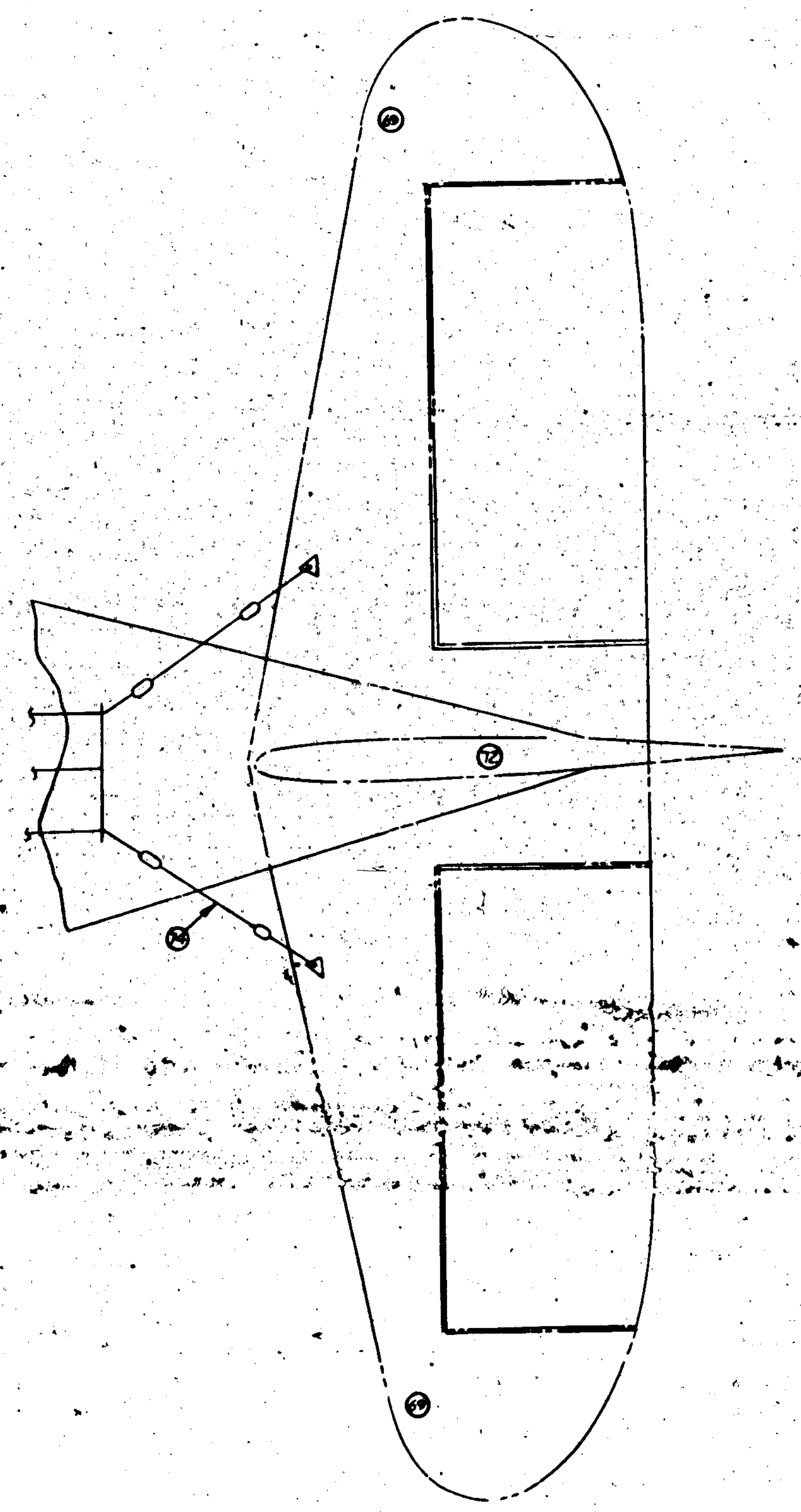
CONSOLIDATED AIRCRAFT CORP.

R 28U5099



2 ABD INDICATOR
4 JUNCTION BOX
23 INTERPHONE CONTROL UNIT
75 ABD JUNCTION BOX
57 ANTENNA SWITCH PANEL
59 RU12 SPARE COILS & CONT.
63 D.W. OUTPUT METER
64 LOOP COUPLER UNIT
66 D W LOOP
65 AZIMUTH SCALE
M. D. P. (REF)
VIEW LOOKING AFT AT BLKH'D #4
BOW TO STA. 2.0
1 ABD CONT. SWITCH PANEL
8 ZA CONT. BOX
13 ZA LANDING INDICATOR
14 ASV REMOTE VISUAL IND.
25 PILOT'S INTERPHONE BOX.
26 CO-PILOTS INTERPHONE BOX
31 PILOTS INTERPHONE CONT. BOX
33 BEAM FILTER
34 BOMBARDIER'S STATION BOX
38 ATB PILOTS CONT. BOX
48 ARB PILOTS RECEIVER CONTROL BOX
50 ARB REMOTE TUN. CONT.
70 ABA CONTROL BOX
42 PILOTS CONTROL BOX ZB-(PBY-5 ONLY)
43 ZB ANTENNA
77 RU REMOTE TUNING CONTROL
78 RU RECEIVER SWITCH BOX
STA. 2.0 TO 3.0
9 ZA JUNCTION BOX
11 ZA GLIDE PATH RCVR
15 ASV RECEIVER
16 ASV LOCAL VIS. INDICATOR
17 ASV CHANGE OVER SWITCH
18 ASV POLYPLEXER
19 ASV CONTROL UNIT
21 ASV TRANSMITTER
32 RADAR STATION BOX
35 ATB DYNAMOTOR
36 ATB TRANSMITTER
37 ATB METERING KIT
39 ATB LEAD-IN INSULATOR
44 ZB SWITCHING RELAY-(PBY-5 ONLY)
49 ARB PILOTS RCVR
51 G.O. AC-DC JUNC. BOX
58 G.O TRANSMITTER
45 ZB HOMING ADAPTER
52 LEAD-IN INSULATOR
STA. 3.0 TO 4.0
2 ABD INDICATOR
3 ABD CONT. BOX
4 ABD JUNC. BOX
10 ZA IMPEDANCE ADAPTER
12 ZA SIGNAL LOCALIZER CON
22 INTERPHONE DYNAMO
24 INT'PHONE NAVIGAT. BOX
27 INT'PHONE JUNC. BOX
32 I.C.S. RADIO OP STA. BOX
40 GO-9 TRANSMITTER KEY
46 ARB CONTROL BOX
47 ARB RADIO OP. RCVR
53 GO ANTEN. LEADOUT INSU
54 ANTENNA REEL
55 RU19 RECEIVER
56 RU19 RCVR SWIT. CON BOX
59 RU19 SPARE COILS & CON.
60 RU19 RCVR JUN. BOX
61 RU19 DYNAMOTOR
62 RU12 FREQUENCY METER
63 D W OUTPUT METER
64 D.W LOOP COUPLER UNIT
66 D W LOOP
23 INTERPHONE CONTROL UNIT
73 IMPACT SWITCH
75 ABD JUNCTION BOX
57 ANTENNA SWITCH PANEL
STA. 4.0 TO 8
6 ABD JUNCTION BOX
7 ABD RECEIVER
20 ASV MATCHING UNIT
28 MECHANICS INTERPHONE BOX
29 WAISTGUNNERS INTER BOX
30 TAILGUNNERS INTER BOX
67 ABA TRANSMITTER
68 ABA DYNAMOTOR
71 WAISTGUNNERS I.C.S. EXTENSION
76 INT'PHONE JC'T BOX
℄ SHIP
15 ASV RECEIVER
16 ASV LOCAL VIS. INDICATOR
17 ASV CHANGE OVER SWITCH
18 ASV POLYPLEXER
21 ASV TRANSMITTER
31 PILOTS INTERPHONE CONT. BOX
32 RADAR STATION BOX
39 ATB LEAD-IN INSULATOR
48 ARB PILOTS CONT. BOX
50 ARB REMOTE TUNING CONTROL
VIEW LOOKING FWD. AT BLKH'D 2.5
K 42





69 ABA ANTENNA
72 ABK ANTENNA
74 ASV COLINEAR ANT.

✱ DENOTES GOV. INSTALLED EQUIP.

GOV'T FURNISHED EQUIPMENT

NO.	REQ'D	ITEM	BUR. OF ENG. DWG. NO.	N.A.F. DWG. NO.	ZONE	C.A.C. DWG. NO.
		ABD EQUIPMENT				
✱ 3	1	CONTROL UNIT			A-6	28F6289
✱ 4	1	JUNCTION BOX		NAF68949	A-6	28F6970
✱ 7	1	RECEIVER			A-8	28F7129
		INTER-CONNECTING CABLES				28F6955
		ZA EQUIPMENT				
8	1	CONTROL BOX	CDE 23285	NAF 214675	A-4	28F6953
9	1	JUNCTION BOX	CDE 62025	NAF 214673	A-5	28F6946
10	1	IMPEDANCE ADAPTER	CDE 30598	NAF 214674	A-6	28F6199
11	1	GLIDE PATH RECEIVER	CDE 46120	NAF 214671	B-5	28F6163
12	1	LOCAL. SIGNAL CONVERTER	CDE 20109	NAF 214672	A-6	28F6243
13	2	LANDING INDICATOR	CAY 22316	NAF 214676	A-4	28F6224
		INTER-CONNECTING CABLES				28F6955
		ASV EQUIPMENT (RADAR)				
✱ 14	1	REMOTE VISUAL INDICATOR	CPR55ABB	NAF214764	A-4	28 7068
✱ 15	1	RECEIVER	CPR46ART	NAF214761	A-5	28F6708
✱ 16	1	LOCAL VISUAL INDICATOR	CPR55ABB	NAF214764	A-5	28F6708
✱ 18	1	POLYPLEXER	CAY-14AAE		E-5	28F6712
✱ 19	1	CONTROL UNIT	CPR-23ABO	NAF311193	F-5	28F6240
✱ 21	1	TRANSMITTER	CPR52AAU	NAF311143	A-5	28F6893
		INTER-CONNECTING CABLES				28F6955
		RL 24C EQUIPMENT				
22	1	DYNAMOTOR		NAF 45746	A-6	28F6440
23	1	CONTROL UNIT		NAF 47546-3	F-6	28F5083
24	1	NAVIGATOR'S INTERPHONE BOX		NAF47541-1	F-6	28F6971
25	1	PILOT'S INTERPHONE BOX		NAF 47539-1	A-4	28F6402
26	1	CO-PILOTS INTERPHONE BOX		NAF47539-1	F-4	28F6400
27	1	JUNCTION BOX		NAF 47546-4	F-6	28F6933
28	1	MECHANICS INTERPHONE BOX		NAF 47539-1	A-7	28F6406
29	2	WAISTGUNNERS INTERP. BOX		NAF47539-1	B-7	28F6407
30	1	TAIL GUNNERS INTERP. BOX		NAF47539-1	B-8	28F6401
31	1	PILOT INTER. CONT. BOX		NAF47546-2	B-5	28F6923
32	1	RADAR INTER. BOX		NAF47539-1	A-5	28F6938
33	1	BEAM FILTER		NAF 68304	B-5	28F6923
34	1	BOMBARDIER'S INTER. BOX		NAF 47539-1	E-3	28F6411
71	2	WAIST GUN'S I.C.S. EXTENSION		NAF 47539-1	E-7	28F5431
		ATB EQUIPMENT				
35	1	DYNAMOTOR JUNCTION BOX	CRV21724		A-5	28F6927
36	1	TRANSMITTER	CRY 47192		F-5	28F6913
37	1	METERING KIT	CRV 60025		F-5	28F6913
38	1	PILOTS CONTROL BOX	CRV 23258		B-5	28F6923
39	1	LEAD-IN INSULATOR		NAF 213258	E-6	28U5004
		INTER-CONNECTING CABLES			E-4	28F6955
		ZB EQUIPMENT				
42	1	PILOTS CONTROL BOX	CW 23214	NAF 214522	B-5	28F6923
43	1	ANTENNA		NAF 214524	E-4	28F5471
44	1	RELAY SWITCH	CW 29093	NAF 214523	E-5	28F6974
45	1	HOMING ADAPTER	CW 69060	NAF 214521	B-5	28F6913
		INTER-CONNECTING CABLES				28F6955
		ARB EQUIPMENT				
46	1	CONTROL BOX	CRV 23254		B-6	28F6414
47	1	RADIO OPERATOR'S RCVR	CRV 46151		B-6	28F6414
48	1	PILOTS CONTROL BOX	CRV 23256		B-5	28F6923
49	1	PILOTS RCVR	CRV 46151		A-5	28F6913
50	1	REMOTE TUNING CONTROL	CRV 23253		B-5	28F6923
		INTER-CONNECTING CABLES				28F6955
		G.O. SERIES RADIO EQUIPT.				
52	1	LEAD-IN INSULATOR		NAF 37016	E-5	28U5004
53	1	LEADOUT INS. STANDPIPE & PLUG		NAF 67858	F-6	28F109
54	1	ANTENNA REEL		NAF 213424	E-8	28F1013
55	1	RU19 RECEIVER	CBY46068C	NAF 213260C	A-6	28F6414
56	1	RU19 RCVR SWITCH BOX	CBY23087	NAF 213254	A-6	28F6414
[illegible]	1	TRANSMITTER		NAF 37440	A-6	28F5025
59	[illegible]	RU19 SPARE COILS & CONTAINER	[illegible]		[illegible]	28F5055
60	1	RU19 RCVR JUNCTION BOX	CBY 62007A	NAF 213255-7	E-6	28F6414
61	1	RU19 DYNAMOTOR	CBY 21441	NAF 213219	F-6	28F1089
62	1	FREQUENCY METER		NAF 213966	E-6	28F6414
90	[illegible]	TRANSMITTER KEY			E-6	28F060
		INTER-CONNECTING CABLES				[illegible]
77	1	AU REMOTE TUNING CONTROL	CBY 23012		B-5	[illegible]
78	1	AU REMOTE [illegible]	CAY [illegible]		[illegible]	[illegible]
		DW EQUIPMENT				
63	1	OUTPUT METER	CRR 50052		B-6	28F5060
64	1	LOOP COUPLER UNIT	CRR69027		E-6	28F5050
65	1	AZIMUTH SCALE	CRR69025		B-2	28F5050
66	1	LOOP			D-6	28F5050
		INTER-CONNECTING CABLES				28F6955
		ABA EQUIPMENT				
✱ 67	1	TRANSMITTER & RECEIVER	T-28J358		C-8	28F6223
✱ 68	1	DYNAMOTOR	T-28J358		C-8	28F6223
✱ 69	2	ANTENNA	M 29J856		E-9	28F5470
✱ 70	1	CONTROL BOX			C-5	28F6205

Ⓐ Ⓒ Ⓓ

Ⓓ Ⓒ

28E5286	INTPHONE JCT BOX
28F6447	ASV COLINEAR ANT
28F6980	ABD JUNCTION BOX
28F6450	ABK ANTENNA
28F6966	INDICATOR ABD
28F6947	CONTROL SW PANEL ABD
28F6450	ABK ANTENNA MAS- & SUPPORT
28U5004	ANTENNA
28F7320	RADAR TRANSMISSION LINES
28F7068	CO-PILOT INDICATOR
28F6980	RCVR TO CONT. UNIT JUNCTION BOXES
28F6974	SWITCHING RELAY
28F6923	BEAM FILTER
28E5274	ELECTRIC RADIO POWER JUNC. BOX
28F6970	ABD JUNCTION BOXES
28F6966	ABD INDICATOR & MTG
[illegible]	PILOTS ZA CONTROL BOX
28F6955	ASV CORD COLINEAR
28F6947	PILOTS ABD CONT. SWITCH &
28F6946	ZA JUNCTION BOX & BKTS
28F6938	INTERPHONE STA. BOX RADAR OPERATOR
[illegible]	[illegible] INTERPHONE JUNC. BOX
28F6927	ATB DYNAMOTOR & BK[illegible]
28F6923	PILOTS EQUIPMENT BULK'D #2
28F6913	[illegible] SHELF
28F6893	RADAR OPERATOR'S SEAT & ASV
28F6863	IMPACT SWITCH & BKT
28F6966	INDICATOR INST. FURN. ABD
28F6708	RADAR OPERATOR'S TABLE
28F6414	RADIO OPERATOR'S SHELF. VIS. IND. "RU" RCVRS & JUN. BOX
28F6289	ABD EQUIP. R3003/R3090 CON. PANEL
28F6955	RADIO CORDAGE INSTALL.
28F6240	RADAR CONTROL UNIT SUPPORT
28F6953	PILOTS ZA CONTROL BOX
28F6205	ABA CONTROL BOX BRKT
28F6199	IMPEDANCE ADAPTER & MTG PLATE
28F6243	LOCALIZER SIGNAL CONVERTER
28F6163	GLIDE PATH RECEIVER SUPPORT
28F6151	LEAD-IN WIRE (SENSE ANTENNA)
28F5493	COLINEAR ANTENNA MATCHING SECT.
28F5471	ZB ANTENNA HULL
28F6913	ZB ADAPTER
28F5387	RADIO CORDAGE
28F5221	ZA RADIO TRANSMISSION LINES
28F5120	ANTENNA SWITCH & CLOCK PANEL
Ⓐ 28E5769	RL24C INTERPHONE WIRING
28F5025	SUPPORT FURN. G.O. TRANSMITTER-UPPER
28F5050	DW TYPE LOOP EQUIPMENT
28F2055	BRAK'T INSTALL. FURN. RADIO COIL BOXES
28F060	TABLE - RADIO OPERATORS

INSTALLATION DRAWINGS.

K 42

APPROVED FOR TOOLING BY

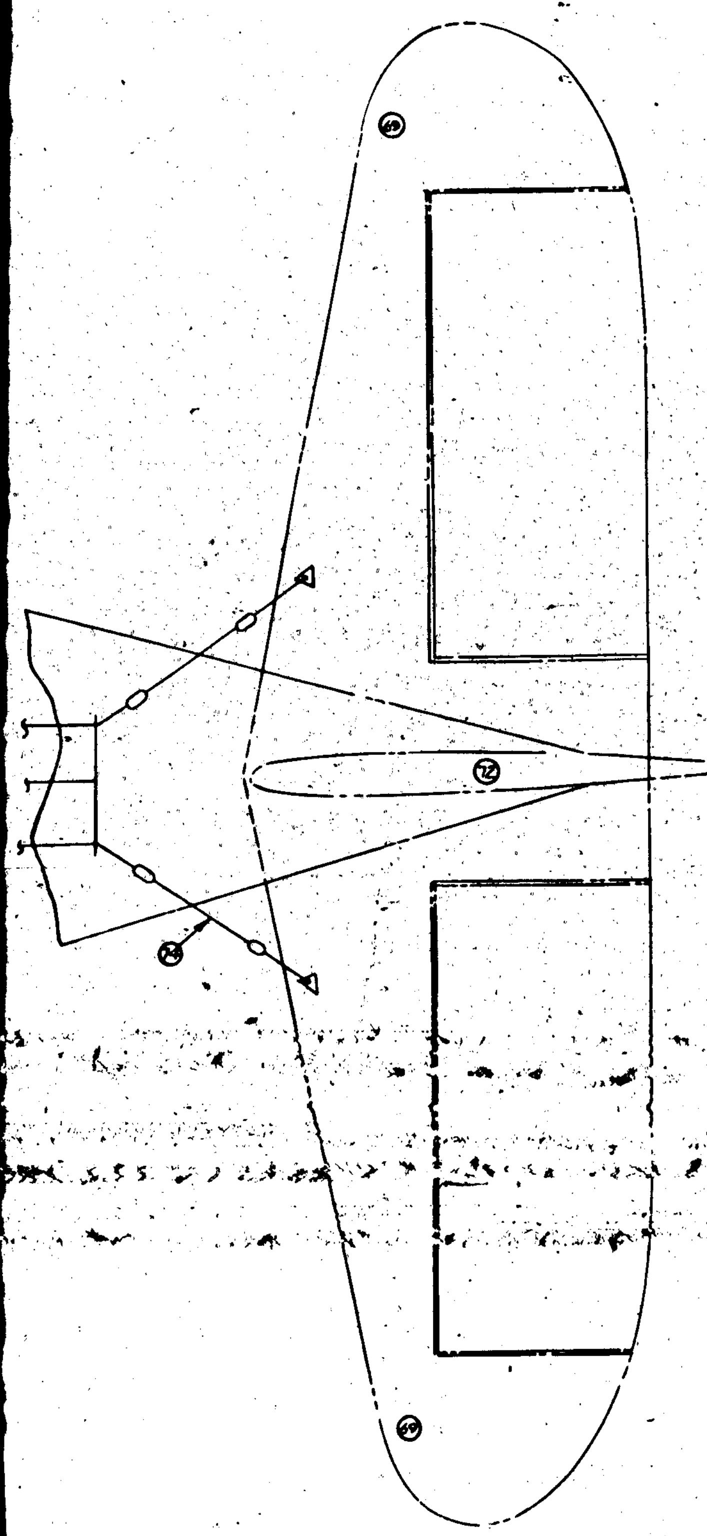
PART NO. | STOCK | MATERIAL | SPEC.

PARTS LIST PER ASSY.

NAME INSTALLATION RADIO EQUIPMENT.

CONSOLIDATED AIRCRAFT CORP.

9 10 11 14



	NO.	REQ'D	ITEM	BUR. OF ENG. DWG. NO.	N.A.F. DWG. NO.	ZONE	C.A.C. DWG. NO.
			GOV'T FURNISHED EQUIPMENT				
			ABD EQUIPMENT				
*	3	1	CONTROL UNIT			A-6	28F6289
*	4	1	JUNCTION BOX		NAF68949	A-6&8	28F6970
*	7	1	RECEIVER			A-8	28F7129
			INTER-CONNECTING CABLES				28F6955
			ZA EQUIPMENT				
	8	1	CONTROL BOX	CDE 23225	NAF214675	A-4	28F6953
	9	1	JUNCTION BOX	CDE 62025	NAF214673	A-5	28F6946
	10	1	IMPEDANCE ADAPTER	CDE 30598	NAF214674	A-6	28F6199
	11	1	GLIDE PATH RECEIVER	CDE 46120	NAF214671	B-5	28F6163
	12	1	LOCAL SIGNAL CONVERTER	CDE 20109	NAF214672	A-6	28F6243
	13	2	LANDING INDICATOR	CAY 22316	NAF214676	A-4	28F6224
			INTER-CONNECTING CABLES				28F6955
			ASV EQUIPMENT (RADAR)				
*	14	1	REMOTE VISUAL INDICATOR	CPR55ABB	NAF214764	A-4	287068
*	15	1	RECEIVER	CPR46ART	NAF214761	A-5	28F6708
*	16	1	LOCAL VISUAL INDICATOR	CPR55ABB	NAF214764	A-5	28F6708
*	18	1	POLYPLEXER	CAN-14AAE		E-5	28F6712
*	19	1	CONTROL UNIT	CPR-23ABO	NAF311193	F-5	28F6240
*	21	1	TRANSMITTER	CPR52AAU	NAF311143	A-5	28F6893
			INTER-CONNECTING CABLES				28F6955
			RL 24C EQUIPMENT				
	22	1	DYNAMOTOR		NAF45746	A-6	28F6440
	23	1	CONTROL UNIT		NAF47546-3	F-6	28F5083
	24	1	NAVIGATOR'S INTERPHONE BOX		NAF47541-1	F-6	28F6971
	25	1	PILOT'S INTERPHONE BOX		NAF47539-1	A-4	28F6402
	26	1	CO-PILOTS INTERPHONE BOX		NAF47539-1	F-4	28F6400
	27	1	JUNCTION BOX		NAF47546-4	F-6	28F6933
	28	1	MECHANICS INTERPHONE BOX		NAF47539-1	A-7	28F6406
	29	2	WAISTGUNNERS INTERP. BOX		NAF47539-1	B-7	28F6407
	30	1	TAILGUNNERS INTERP. BOX		NAF47539-1	B-8	28F6401
	31	1	PILOT INTER. CONT. BOX		NAF47546-2	B-5	28F6923
	32	1	RADAR INTER BOX		NAF47539-1	A-5	28F6338
	33	1	BEAM FILTER		NAF68304	B-5	28F6923
	34	1	BOMBARDIER'S INTER BOX		NAF47539-1	E-3	28F6411
	71	2	WAIST GUN'S I.C.S. EXTENSION		NAF47539-1	E-7	28F5431
			ATB EQUIPMENT				
	35	1	DYNAMOTOR JUNCTION BOX	CRV21724		A-5	28F6927
	36	1	TRANSMITTER	CRV 47192		F-5	28F6913
	37	1	METERING KIT	CRV 60025		F-5	28F6913
	38	1	PILOTS CONTROL BOX	CRV 23258		B-5	28F6923
	39	1	LEAD-IN INSULATOR		NAF213258	E-5	28U5004
			INTER-CONNECTING CABLES			E-6	28F6955
			ZB EQUIPMENT				
	42	1	PILOTS CONTROL BOX	CW 23214	NAF214522	B-5	28F6923
	43	1	ANTENNA		NAF214524	E-4	28F5471
	44	1	RELAY SWITCH	CW 29093	NAF214523	E-5	28F6974
	45	1	HOMING ADAPTER	CW 69060	NAF214521	B-5	28F6913
			INTER-CONNECTING CABLES				28F6955
			ARB EQUIPMENT				
	46	1	CONTROL BOX	CRV 23254		B-6	28F6414
	47	1	RADIO OPERATOR'S RCVR	CRV 46151		B-6	28F6414
	48	1	PILOTS CONTROL BOX	CRV 23256		B-5	28F6923
	49	1	PILOTS RCVR	CRV 46151		A-5	28F6913
	50	1	REMOTE TUNING CONTROL	CRV 23253		B-5	28F6923
			INTER-CONNECTING CABLES				28F6955
			G.O. SERIES RADIO EQUIP'T				
	52	1	LEAD-IN INSULATOR		NAF37016	E-5	28U5004
	53	1	LEADOUT INS. STANDPIPE & PLUG		NAF63858	F-6	28F1019
	54	1	ANTENNA REEL		NAF213424	E-5	28F1013
	55	1	RU19 RECEIVER	CBY46648C	NAF213280C	A-6	28F6414
	56	1	RU19 RCVR SWITCH BOX	CBY23087	NAF213254	E-6	28F6414
	[illegible]	[illegible]	[illegible]	[illegible]	NAF214410	[illegible]	[illegible]
	59	9	RU19 SPARE COILS & CONTAINER	CBY10152			28F6414
	60	1	RU19 RCVR JUNCTION BOX	CBY62007-A	NAF213255-7	E-6	28F1889
	61	1	RU19 DYNAMOTOR	CBY 21441	NAF21320	F-6	28F6414
	62	1	FREQUENCY METER		NAF213944	E-4	[illegible]
	[illegible]		TRANSMITTER [illegible]			[illegible]	28F060
			INTER-CONNECTING CABLES				28F6955
	77	1	RU REMOTE TUNING CONTROL	CBY 23012		B-5	[illegible]
	[illegible]		RU RECEIVER SWITCH BOX	[illegible]		A-5	[illegible]
			DW EQUIPMENT				
	63	1	OUTPUT METER	CRR 50052		B-6	28F5060
	64	1	LOOP COUPLER UNIT	CRR69027		E-6	28F5050
	65	1	AZIMUTH SCALE	CRR69025		B-2	28F5050
	66	1	LOOP			D-6	28F5050
			INTER-CONNECTING CABLES				28F6955
			ABA EQUIPMENT				
*	67	1	TRANSMITTER & RECEIVER	T-28J358		C-8	28F6223
*	68	1	DYNAMOTOR	T-28J358		C-8	28F6223
*	69	2	ANTENNA	M 28J856		E-9	28F5470
*	70	1	CONTROL BOX			C-5	28F6205

* DENOTES GOV. INSTALLED EQUIP.

63 ABA ANTENNA
72 ABK ANTENNA
74 ASV COLINEAR ANT.

DWG. NO.	TITLE
28E5286	INTPHONE JCT BOX
28F6447	ASV COLINEAR ANT
28F6980	ABD JUNCTION BOX
28F6450	ABK ANTENNA
28F6966	INDICATOR ABD
28F6947	CONTROL SW PANEL ABD
28F6450	ABK ANTENNA MAST & SUPPORT
28U5004	ANTENNA
28F7320	RADAR TRANSMISSION LINES
28F7068	CO-PILOT INDICATOR
28F6900	RCVR TO CONT. UNIT JUNCTION BOXES
28F6974	SWITCHING RELAY
28F6923	BEAM FILTER
28E5274	ELECTRIC RADIO POWER JUNC. BOX
28F6970	ABD JUNCTION BOXES
28F6966	ABD INDICATOR & MTG
[illegible]	[illegible]
28F6965	ASV CORD COLINEAR
28F6947	PILOTS ABD CONT SWITCH &
28F6946	ZA JUNCTION BOX & BKTS
[illegible]	[illegible] RADAR OPERATOR
28F6933	RL 24C INTERPHONE JUNC BOX
28F6927	ATB DYNAMOTOR & BKT
[illegible]	[illegible]
28F6913	INTERSQUADRON TRANS RECR. & SHELF
28F6893	RADAR OPERATOR'S SEAT & ASV
28F6863	IMPACT SWITCH & BKT
28F6966	INDICATOR INST. FURN. ABD
28F6708	RADAR OPERATORS TABLE
28F6414	RADIO OPERATOR'S SHELF, VIS. IND. "RU" RCVRS & JUN. BOX
28F6289	ABD EQUIP. R3003/R3090 CON. PANEL
28F6955	RADIO CORDAGE INSTALL.
28F6240	RADAR CONTROL UNIT SUPPORT
28F6953	PILOTS ZA CONTROL BOX
28F6205	ABA CONTROL BOX BRKT
28F6199	IMPEDANCE ADAPTER & MTG PLATE
28F6243	LOCALIZER SIGNAL CONVERTER
28F6163	GLIDE PATH RECEIVER SUPPORT
28F6151	LEAD-IN WIRE (SENSE ANTENNA)
28F5493	COLINEAR ANTENNA MATCHING SECT.
28F5471	ZB ANTENNA HULL
28F6913	ZB ADAPTER
28F5387	RADIO CORDAGE
28F5221	ZA RADIO TRANSMISSION LINES
28F5120	ANTENNA SWITCH & CLOCK PANEL
(A) 28E5769	RL 24C INTERPHONE WIRING
28F5025	SUPPORT FURN. G.O. TRANSMITTER-UPPER
28F5050	DW TYPE LOOP EQUIPMENT
28F2055	BRAK'T INSTALL. FURN. RADIO COIL BOXES
28F060	TABLE - RADIO OPERATORS

INSTALLATION DRAWINGS

C-NOa(s) 464, TO MCR 270 153(1)

MODEL	NEXT ASS'Y	REQ
PBY-5A	28F1002	1
PBY-5	28F1002	1

REQUIREMENTS PER AIRPLANE

REPLACED 28U5316 1-27-42

SCALE 1" = 1'0"

PART NO. | STOCK | MATERIAL | SPEC. — PARTS LIST PER ASSY. — -0 -2 -3 -4 -5

K 42

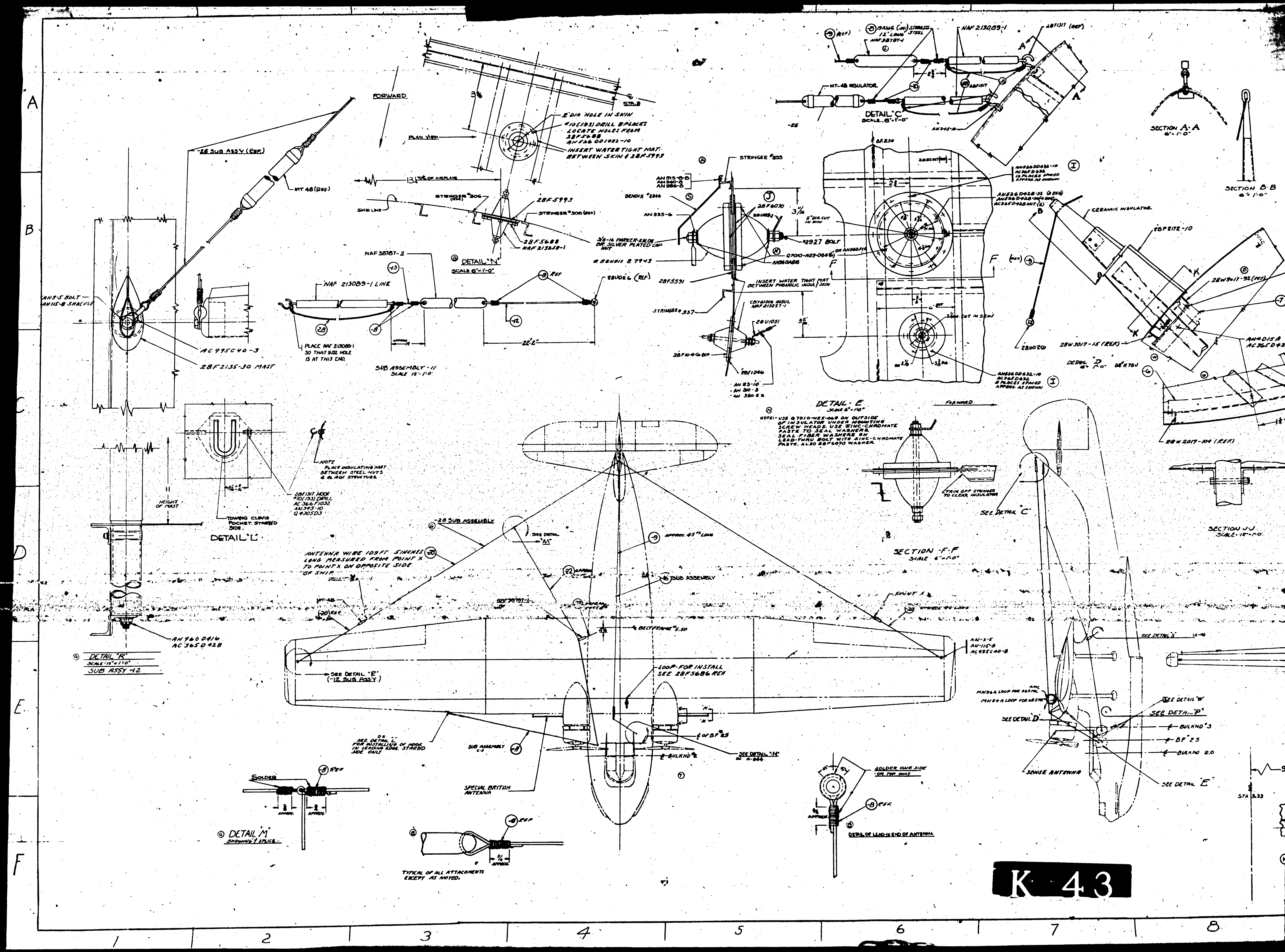
APPROVED FOR TOOLING BY Howarth 10/31/42

NAME INSTALLATION RADIO EQUIPMENT.

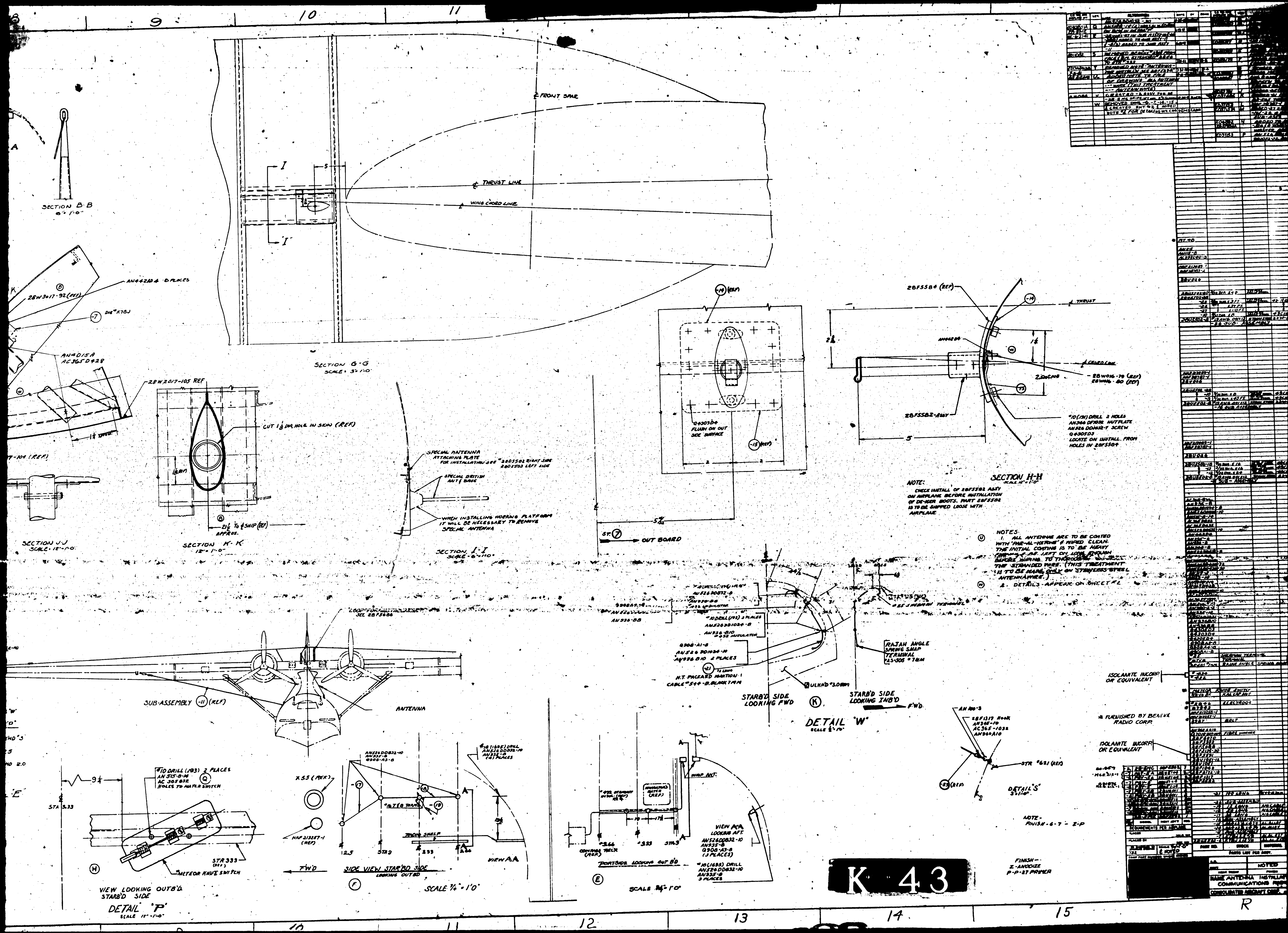
CONSOLIDATED AIRCRAFT CORP., SAN DIEGO, CALIF.

K 28U5103

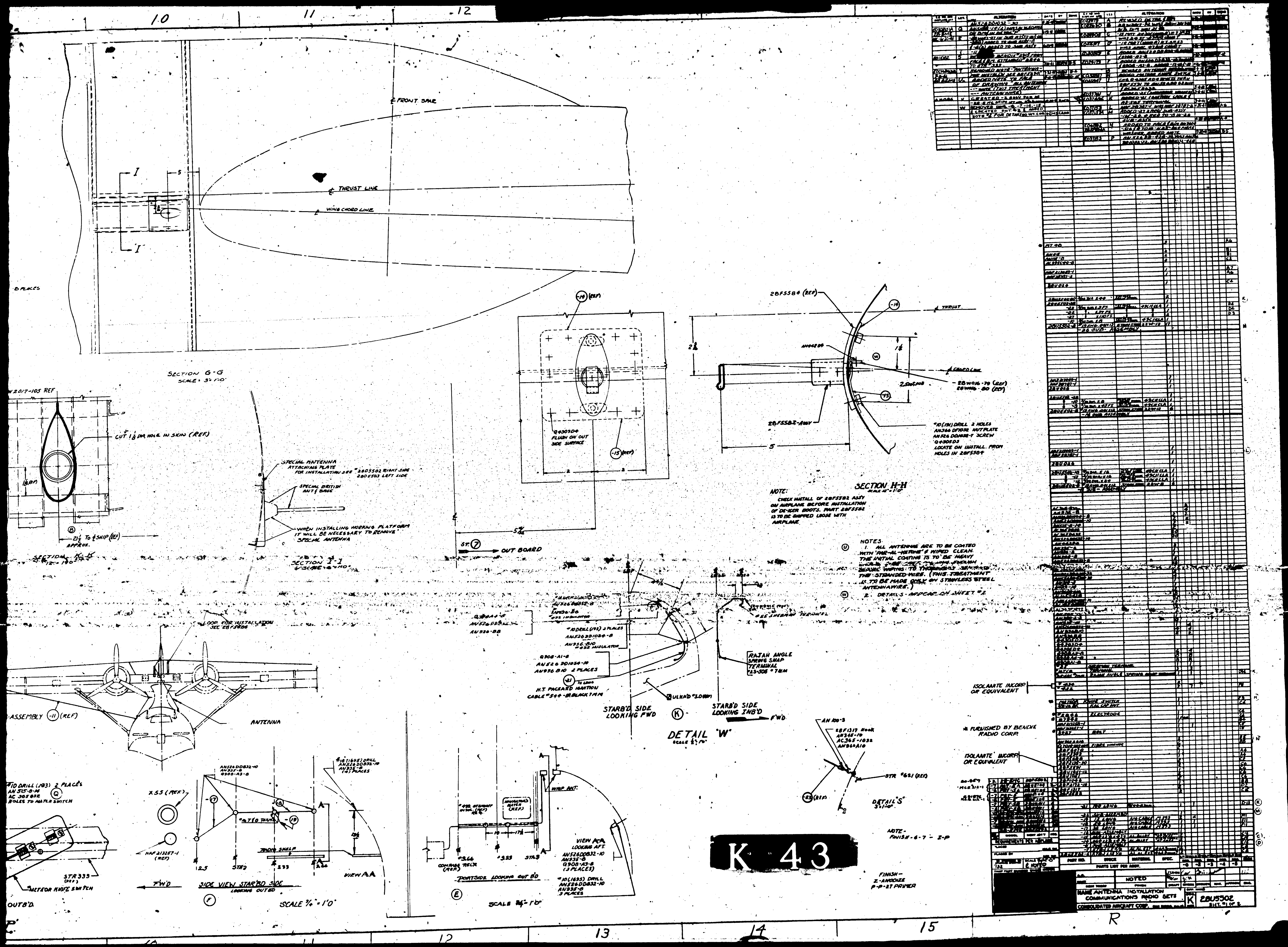
R 28U5103



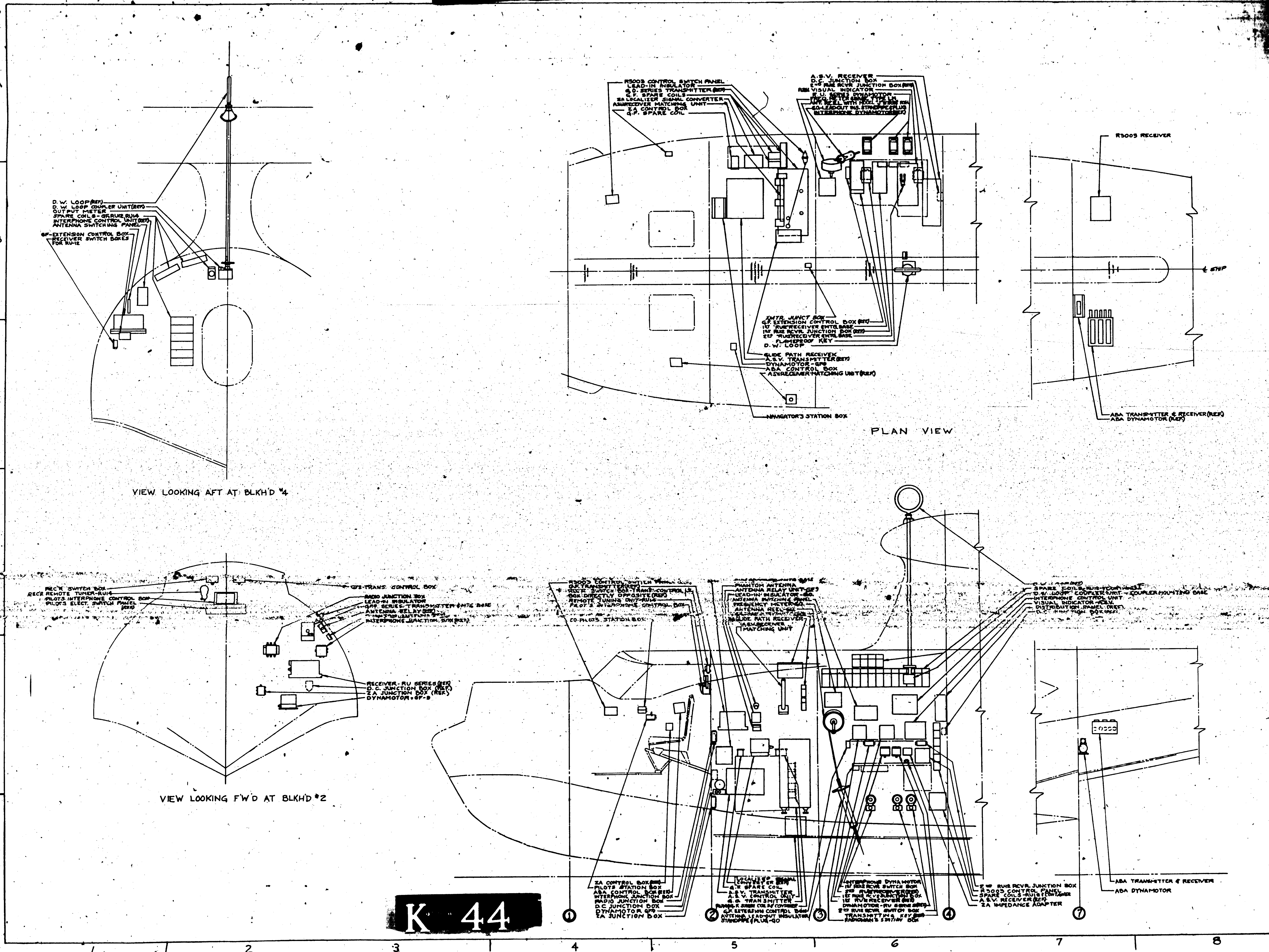
FORWARD
PLAN VIEW
2" DIA HOLE IN SKIN
#10(.193) DRILL 8 PLACES LOCATE HOLES FROM 28F5688
INSERT WATERTIGHT MAT. BETWEEN SKIN & 28F5993
-26 SUB ASS'Y (REF.)
MT 48 (REF)
28F5993
28F5688
NAF 213258-1
DETAIL "N"
SCALE 6"-1'-0"
NAF 38787-2
NAF 213089-1 LINK
PLACE NAF 213089-1 SO THAT 9/32 HOLE IS AT THIS END.
SUB ASSEMBLY -11
SCALE 12"-1'-0"
AN3-5 BOLT
AN115-8 SHACKLE
AC 995C40-3
28F2135-30 MAST
BENDIX #2846
AN 335-6
28F6070
#2927 BOLT
#BENDIX B 7943
28F5591
INSERT WATER TIGHT MAT BETWEEN PHENOLIC INSUL. & SKIN
STRINGER #337
28U1051
28F1046
DETAIL - E
NOTE: USE Q7010-H25-068 ON OUTSIDE OF INSULATOR UNDER MOUNTING SCREW HEADS. USE ZINC-CHROMATE PASTE TO SEAL WASHERS. SEAL FIBER WASHERS ON LEAD-THRU BOLT WITH ZINC-CHROMATE PASTE. ALSO 28F6070 WASHER.
MT-48 INSULATOR
DETAIL "C"
SCALE 6"-1'-0"
NAF 213089-1
28F1317 (REF)
SECTION A-A
SECTION B-B
CERAMIC INSULATOR
28W3017-15 (REF)
28W2017-104 (REF.)
NOTE
PLACE INSULATING MAT BETWEEN STEEL NUTS & ALARM STRUCTURE
28F1317 HOOK
TOWING CLEVIS POCKET. STARB'D SIDE
HEIGHT OF MAST
DETAIL "L"
TRIM OFF STRINGER TO CLEAR INSULATOR
SEE DETAIL "C"
SECTION -F-F
SCALE 6"-1'-0"
SECTION J-J
SCALE 12"-1'-0"
-28 SUB ASSEMBLY
ANTENNA WIRE 109 FT. 5 INCHES LONG MEASURED FROM POINT X TO POINT X ON OPPOSITE SIDE OF SHIP
SUB ASSEMBLY
POINT X
BELT FRAME 5.50
AN 960 D416
AC 365 D 428
DETAIL "R"
SCALE 12"-1'-0"
SUB ASSY -12
SEE DETAIL "R" (-12 SUB ASS'Y.)
LOOP-FOR INSTALL SEE 28F5686 REF.
AN-3-5
AN-115-8
AC 995C40-8
SEE DETAIL "L" FOR INSTALLING OF HOOK IN LEADING EDGE, STARB'D SIDE ONLY
SPECIAL BRITISH ANTENNA
SEE DETAIL "N"
SEE DETAIL "W"
SEE DETAIL "P"
SEE DETAIL "D"
SEE DETAIL "E"
BULKHD 3
BF 25
BULKHD 2.0
SENSE ANTENNA
SOLDER
DETAIL "M"
SHOWING SPLICE
TYPICAL OF ALL ATTACHMENTS EXCEPT AS NOTED.
SOLDER ONE SIDE OR TOP ONLY
DETAIL OF LEAD-IN END OF ANTENNA
K 43



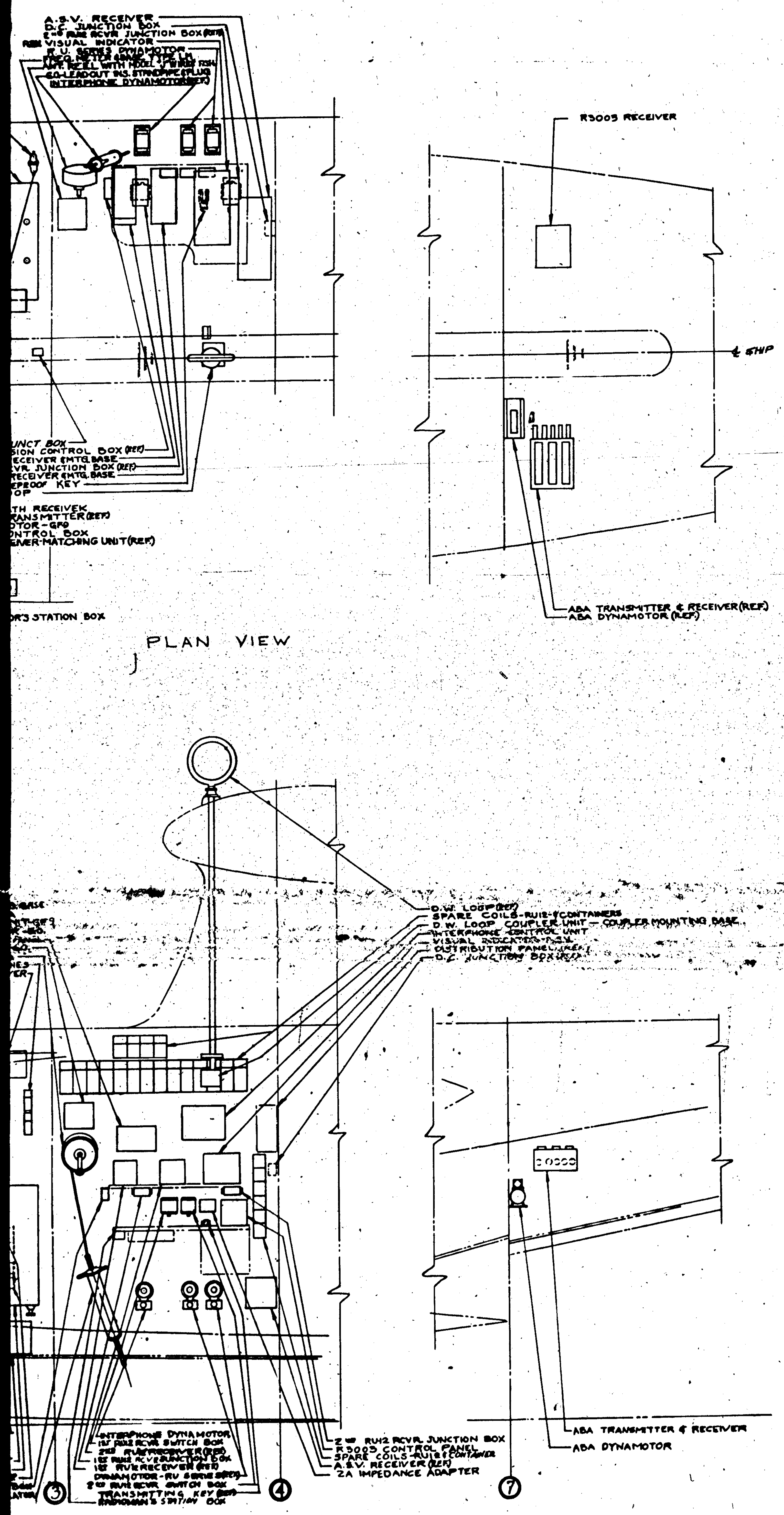
SECTION B-B
FRONT SPAR
THRUST LINE
WING CHORD LINE
SECTION G-G
28W3017-92 (REF)
AN442AD4 8 PLACES
28W2017-105 REF
CUT 1 1/8 DIA HOLE IN SKIN (REF)
SECTION J-J
SECTION K-K
SPECIAL ANTENNA ATTACHING PLATE
SPECIAL BRITISH ANT. BASE
WHEN INSTALLING WORKING PLATFORM IT WILL BE NECESSARY TO REMOVE SPECIAL ANTENNA
SECTION I-I
OUT BOARD
Q430504 FLUSH ON OUT SIDE SURFACE
2BF5584 (REF)
28F5582-ASSY
SECTION H-H
NOTE:
CHECK INSTALL OF 28F5582 ASSY ON AIRPLANE BEFORE INSTALLATION OF DE-ICER BOOTS. PART 28F5582 IS TO BE SHIPPED LOOSE WITH AIRPLANE
NOTES.
1. ALL ANTENNAE ARE TO BE COATED WITH "PAR-AL-KETONE" & WIPED CLEAN. THE INITIAL COATING IS TO BE HEAVY ... BEFORE WIPING. TO THOROUGHLY ... THE STRANDED WIRE. (THIS TREATMENT IS TO BE MADE ONLY ON STAINLESS STEEL ANTENNA WIRE.)
2. DETAILS APPEAR ON SHEET #2
SUB-ASSEMBLY (-11) (REF)
ANTENNA
RAJAH ANGLE SPRING SNAP TERMINAL
STARB'D SIDE LOOKING FWD
STARB'D SIDE LOOKING INB'D
DETAIL "W"
ISOLANTITE INCORP. OR EQUIVALENT
FURNISHED BY BENDIX RADIO CORP.
DETAIL "S"
NOTE - FINISH-6-7 - Z-P
METEOR KNIFE SWITCH
VIEW LOOKING OUTB'D STARB'D SIDE
DETAIL "P"
SIDE VIEW STAR'BD SIDE LOOKING OUTBD
SCALE 1/2" = 1'0"
VIEW AA
WHIP ANT.
VIEW A-A LOOKING AFT.
PORTSIDE LOOKING OUT BD
FINISH - Z-ANODIZE P-P-27 PRIMER
K 43
ANTENNA INSTALLATION COMMUNICATIONS
CONSOLIDATED AIRCRAFT CORP.



FRONT SPAR
THRUST LINE
WING CHORD LINE
SECTION G-G
SECTION H-H
SECTION K-K
SECTION I-I
SPECIAL ANTENNA ATTACHING PLATE FOR INSTALLATION SEE 2BU5502 RIGHT SIDE 2BU5503 LEFT SIDE
SPECIAL BRITISH ANT. BASE
WHEN INSTALLING WORKING PLATFORM IT WILL BE NECESSARY TO REMOVE SPECIAL ANTENNA
OUT BOARD
NOTE: CHECK INSTALL OF 2BF5582 ASSY ON AIRPLANE BEFORE INSTALLATION OF DE-ICER BOOTS. PART 2BF5582 IS TO BE SHIPPED LOOSE WITH AIRPLANE.
NOTES
1. ALL ANTENNAS ARE TO BE COATED WITH "PAR-AL-KETONE" & WIPED CLEAN.
2. DETAILS APPEAR ON SHEET #2
RAJAH ANGLE SPRING SNAP TERMINAL
H.T. PACKARD IGNITION CABLE
STARB'D SIDE LOOKING FWD
STARB'D SIDE LOOKING INB'D
DETAIL "W"
DETAIL "S"
ANTENNA
ISOLANTITE INCORP. OR EQUIVALENT
FURNISHED BY BENDIX RADIO CORP.
METEOR KNIFE SWITCH
SIDE VIEW STARB'D SIDE LOOKING OUTB'D
SCALE 1/4" = 1'0"
PORTSIDE LOOKING OUTBD
VIEW AA
FINISH - Z-ANODIZE P-P-27 PRIMER
K 43
NOTED
ANTENNA INSTALLATION COMMUNICATIONS RADIO SETS
CONSOLIDATED AIRCRAFT CORP.
2BU5502



D.W. LOOP (REF)
D.W. LOOP COUPLER UNIT (REF)
OUTPUT METER
INTERPHONE CONTROL UNIT (REF)
ANTENNA SWITCHING PANEL
GF-EXTENSION CONTROL BOX
RECEIVER SWITCH BOXES FOR RU-12
VIEW LOOKING AFT AT BLKH'D #4
R5003 CONTROL SWITCH PANEL
LEAD-IN INSULATOR
G.F. SPARE COILS
ZA CONTROL BOX
A.S.V. RECEIVER
D.C. JUNCTION BOX
VISUAL INDICATOR
INTERPHONE DYNAMOTOR
R5003 RECEIVER
XMTR. JUNCT BOX
G.F. EXTENSION CONTROL BOX (REF)
D.W. LOOP
GLIDE PATH RECEIVER
A.S.V. TRANSMITTER (REF)
DYNAMOTOR-GF9
ABA CONTROL BOX
NAVIGATOR'S STATION BOX
ABA TRANSMITTER & RECEIVER (REF)
ABA DYNAMOTOR (REF)
PLAN VIEW
GF-TRANS. CONTROL BOX
RADIO JUNCTION BOX
LEAD-IN INSULATOR
ANTENNA RELAY (REF)
INTERPHONE JUNCTION BOX (REF)
RECEIVER-RU SERIES (REF)
D.C. JUNCTION BOX (REF)
ZA JUNCTION BOX (REF)
DYNAMOTOR-GF-9
VIEW LOOKING F'W'D AT BLKH'D #2
CO-PILOTS STATION BOX
PHANTOM ANTENNA
ANTENNA RELAY UNIT-GF9
FREQUENCY METER
GLIDE PATH RECEIVER
MATCHING UNIT
SPARE COILS
INTERPHONE CONTROL UNIT
VISUAL INDICATOR
DISTRIBUTION PANEL (REF)
ZA CONTROL BOX
PILOTS STATION BOX
ABA CONTROL BOX
INTERPHONE JUNCTION BOX
RADIO JUNCTION BOX
D.C. JUNCTION BOX
DYNAMOTOR GF9
ZA JUNCTION BOX
A.S.V. TRANSMITTER
A.S.V. CONTROL UNIT
G.F. TRANSMITTER
INTERPHONE DYNAMOTOR
TRANSMITTING KEY
R5003 CONTROL PANEL
A.S.V. RECEIVER (REF)
ZA IMPEDANCE ADAPTER
ABA TRANSMITTER & RECEIVER
ABA DYNAMOTOR
K 44



GOV'T FURNISHED EQUIPMENT

REQ'D	ITEM	BU. OF ENG. DWG. NO.	N.A.F. DWG. NO.	ZONE
	G.F. 9 RADIO EQUIP.			
1	TRANSMITTER	CBY52063A	NAF213281	D3
1	TRANSMITTER MOUNTING BASE	CBY52014		D3
1	RECEIVER-RU14	CBY46051A	NAF213248	D5
1	RECEIVER MOUNTING BASE	CBY46011		D5
1	TRANSMITTER CONTROL BOX	CBY23097	NAF213	D3
1	RECEIVER SWITCH BOX	CBY23096	NAF213254	D1
1	EXTENSION CONTROL BOX	CBY23098		F5
1	ANTENNA RELAY UNIT	CBY29076	NAF213284	D5
1	JUNCTION BOX-RADIO	CBY62018	NAF213255	D3
1	DYNAMOTOR UNIT	CBY21454	NAF213252	F4
1	RECEIVER REMOTE TUNER-RU14	CBY28012	NAF213253	D1
1	PHANTOM ANTENNA	CBY66005	NAF213841	D5
14	COILS RU-12	CBY47068-69-70-71-72-75 & 99 (2 EACH)		D7
6	COILS RU-12 (DUAL)	CBY47105, 06, & 88 (2 EACH)		F7
4	COILS SET CONTAINERS	CBY47029	NAF213270-1	F5
4	COILS RU-14	CBY47068, 70, 72 & 73		F5
	R L 24B INTERPHONE EQUIP.			
1	INTERPHONE CONTROL UNIT		NAF47546-3	D7
1	PILOTS CONTROL BOX		NAF47546-2	D4
1	DYNAMOTOR		NAF48746-1	F6
1	INTERPHONE JUNCTION BOX		NAF47546-4	F4
1	RADIOMAN'S STATION BOX		NAF47539-1	F6
2	PILOTS STATION BOXES		NAF47539-1	D4&E4
1	NAVIGATOR'S STA. BOX		NAF47541-1	C5
5	STATION BOXES		NAF47540-1	
9	MICROPHONES T-38 TYPE		NAF213264-3	
9	MICROPHONE CLIPS		NAF213264-2	
9	HEADSETS TYPE 38610			
1	SET CONNECTING CABLES			
	TYPE D.W. DIRECTION FINDER LOOP			
1	COUPLER UNIT	CRR50052		D7
1	COUPLER MOUNTING BASE			D7
1	LOOP	CRR50053		C5
1	AZIMUTH SCALE & ROTATING MECH.	CRR69027		
1	SET CONNECTING CABLES			
1	OUT PUT METER			B1
	G O SERIES RADIO EQUIP.			
1	TRANSMITTER MODEL GO-5		NAF214262	F5
1	TRANSMITTER MODEL GO-6		NAF214409	F5
1	TRANSMITTER MODEL GO-9		NAF214410	F5
2	RU12 SERIES RECEIVERS	CBY46048C	NAF213248C	C5
2	RU12 RECEIVER MOUNTING BASES	CBY46048C	NAF213248C	C5
2	RU12 RECEIVER SWITCH BOXES	CBY23087	NAF213254	F6
2	RU12 RECEIVER DYNAMOTORS	CBY21441	NAF213129	A6
1	FLAME PROOF KEY		NAF213265	C5
1	FREQUENCY METER & BASE TYPE LM		NAF213966	A6
1	ANT REEL WITH MODEL J WIRE & FISH		NAF213424	A6
1	LEAD OUT INSULATOR STANDPIPE & PLUG		NAF67858-1	A6
2	RU12 RECEIVER JUNCTION BOXES	CBY62007A	NAF213855-1	F6, F7
1	LEAD IN INSULATOR		NAF37016	D5
24	COIL SET CONTAINERS	CBY47029	NAF213270-2	D7&F7
	ZA SERIES RADIO EQUIP.			
1	GLIDE PATH RECEIVER	CDE46120	NAF214671	C5
1	LOCALIZER SIGNAL CONVERTER	CDE20109	NAF214672	A5
1	ZA JUNCTION BOX	CDE62025	NAF214673	F4
1	IMPEDANCE ADAPTER	CDE30596	NAF214674	F7
1	CONTROL BOX	CDE23225	NAF214675	A4
1	FLEXIBLE TRANSMISSION LINE	2793-1		
1	RIGID TRANSMISSION LINE	2795-1		
	ANTENNA			
	ABA EQUIP.			
1	ABA CONTROL BOX			C5
1	ABA TRANSMITTER & RECEIVER			F8
1	ABA DYNAMOTOR			F8
1	ABA CHALLENGE LIGHT			
1	ABX SWITCH			
	ANTENNA			
1	SET CONNECTING CABLES			
	IFF EQUIP.			
1	R3003 RECEIVER			B7
1	R3003 CONTROL SWITCH PANEL			A4
1	CONTROL PANEL			F7
1	SET CONNECTING CABLES			
	A.S.V. EQUIP. (RADAR)			
1	A.S.V. TRANSMITTER			F6
1	A.S.V. CONTROL UNIT			F5
1	A.S.V. INDICATOR			A6
1	CHANGE OVER SWITCH			D5
1	A.S.V. RECEIVER			A6
2	RECEIVER MATCHING UNIT			A5, D5

28F5105 RADIO COIL BOX BRACKET
28F6412 RECEIVER MATCHING UNIT (PORT)
28F5387 R3003 RADIO CORDAGE
28E5136 R3003 POWER JUNCT. BOX
28F5370 YAGI XMTTR ANT JUNCT BOX
28F6161 LEAD-IN WIRE SENSE ANTENNA
28F7809 MATCHING UNITS
28E5104 RADAR RECVR TO CONTROL BOX SPLICE
28F8221 ZA RADIO TRANS LINES
[illegible]
[illegible]
28F5100 ANTENNA SW & CLOCK PANEL
28F060-185 TABLE-RADIO OPERATORS
28F233-65 SEAT-RADIO OPERATORS
[illegible]
28F6414 SHELF-RADIO OPERATORS
28F5050 RDF-LOOP [illegible]
28F1019-30 REEL SUPPORT & STANDPIPE
28U6004 ANTENNA
28F1289 DYNAMOTORS R.U. SERIES
28F5023 GO-6 TRANSMITTER SUPPORT-LOWER
28F6405 INTERPHONE EQUIP. RL-24B
28F5102 GF. RADIO EQUIPMENT ON BULKHEAD #2
28F2055 COIL CONTAINERS RU & GF SERIES
28F6286 ABA RADIO CORDAGE
28F7129 R3003 RECEIVER
28F6290 R3003 CONTROL SWITCH PANEL CO-PILOTS
28F6289 R3003 CONTROL PANEL
28F6250 GRAVINER SWITCH
28F6237 ASV. TRANSMITTER
28F6240 RADAR CONTROL UNIT
28F6413 RADAR ANTENNA LEADS-HULL
28F6228 RADAR RECEIVER SUPPORT
28F7320 RADAR TRANSMITTER LINES
28F5366 CHANGE OVER SWITCH
28F6404 RECEIVER MATCHING UNIT
28F6206 ABA CONTROL BOX
28F6223 ABA TRANSMITTER, RECEIVER & DYNAMOTOR
28F6285 ASY RADIO CORDAGE
28F6163 GLIDE PATH RECEIVER
28F6164 LOCALIZER SIGNAL CONVERTER
28F6415 R3003 ANTENNA
28F6199 Z-A IMPEDENCE ADAPTER
28F6212 PILOTS Z-A CONTROL BOX
28F5221 ZA TRANSMISSION LINES
28F6243 FREQUENCY INDICATOR
28F5031 RADIO COIL BOXES
28F6309 RADIO COIL BOXES BRACKET
28F6214 SPARE TRANS COILS

INSTALLATION DRAWINGS (REF.)

CONTRACT NO. 91474 — 33 SHIPS

PBY-5 / PBY-5A

SCALE 1"=1'-0"

INSTALL - RADIO EQUIP

CONSOLIDATED AIRCRAFT CORP

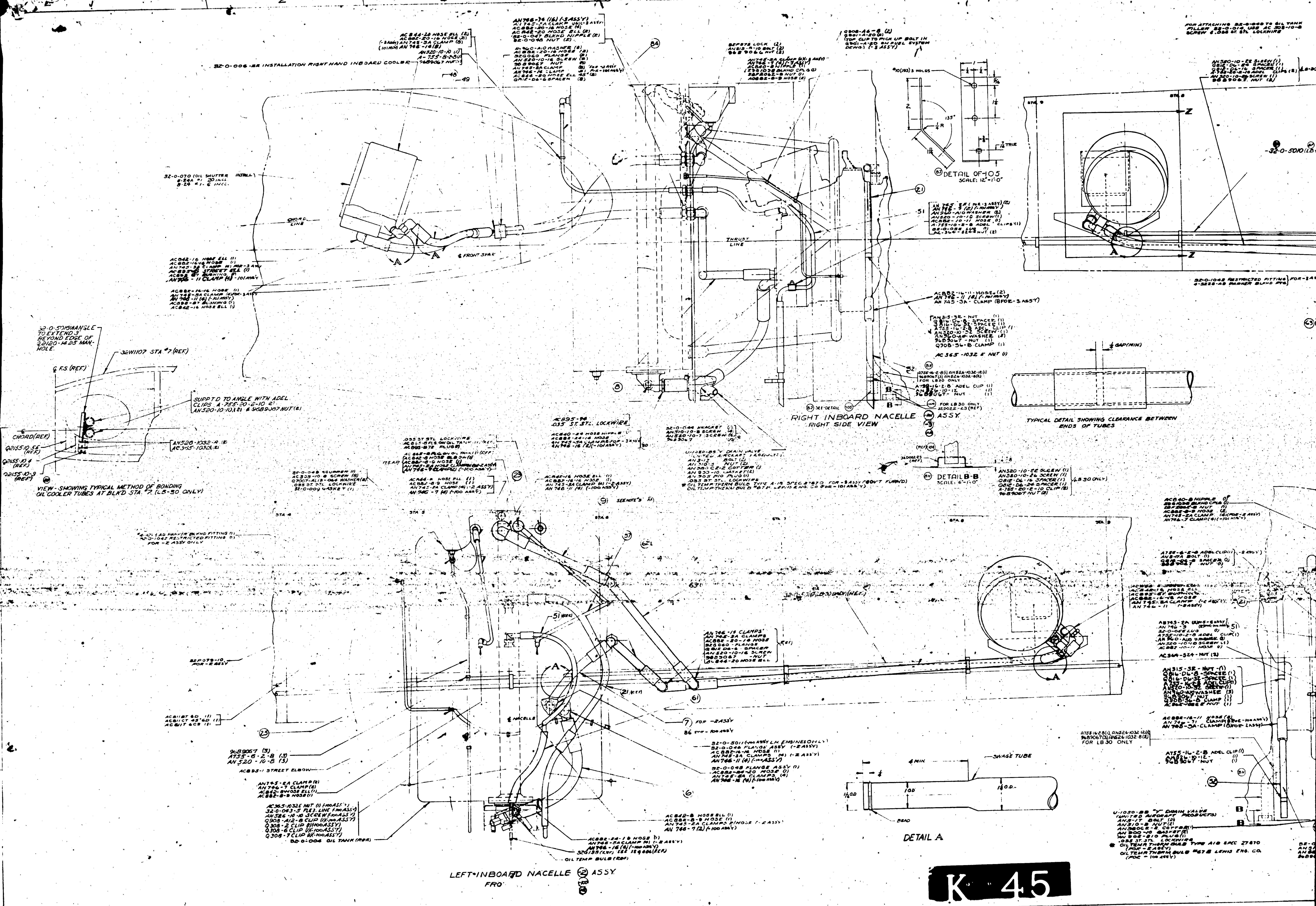
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K 44

Final Released 5-27-42

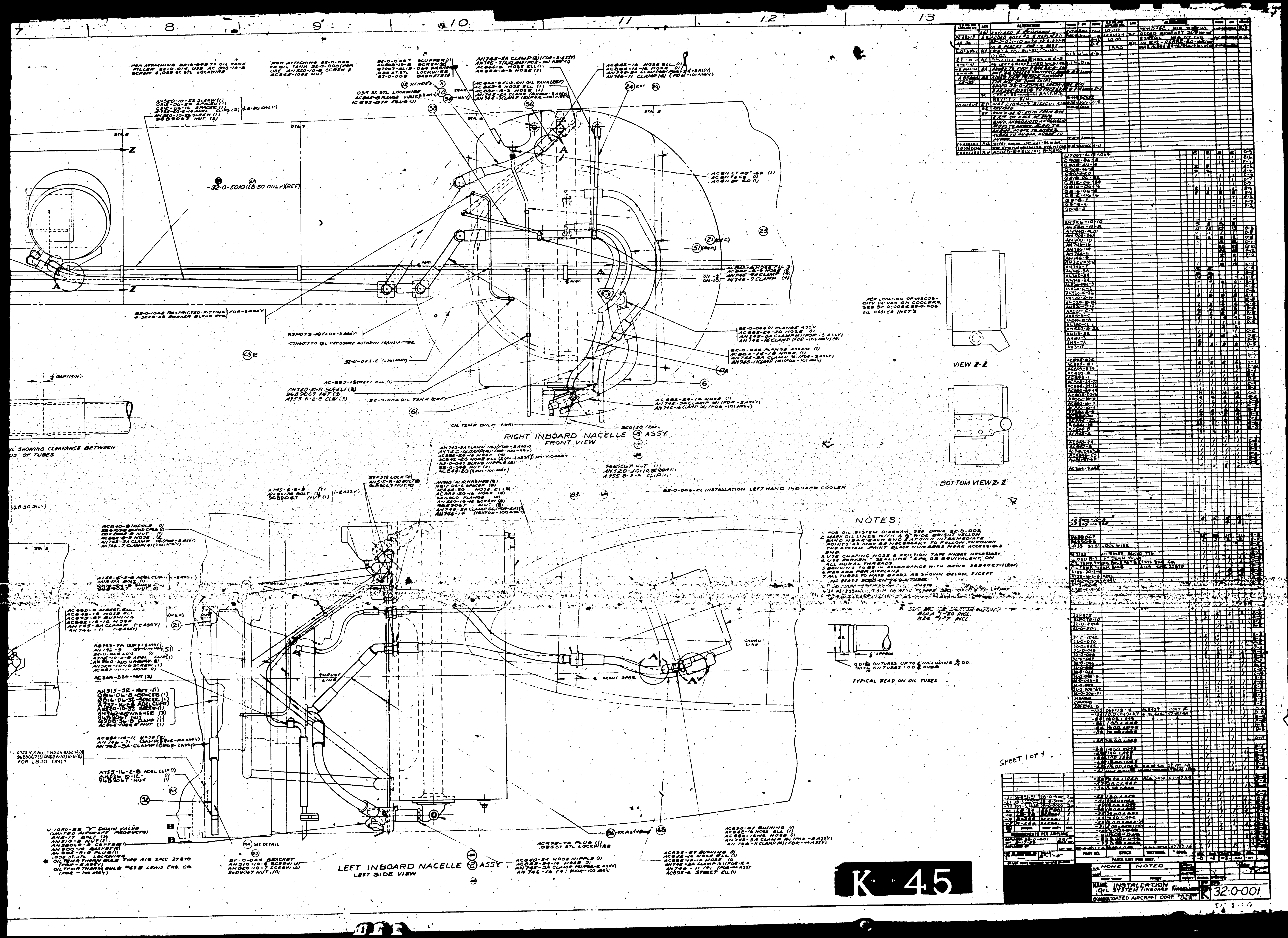
R 3/31/42

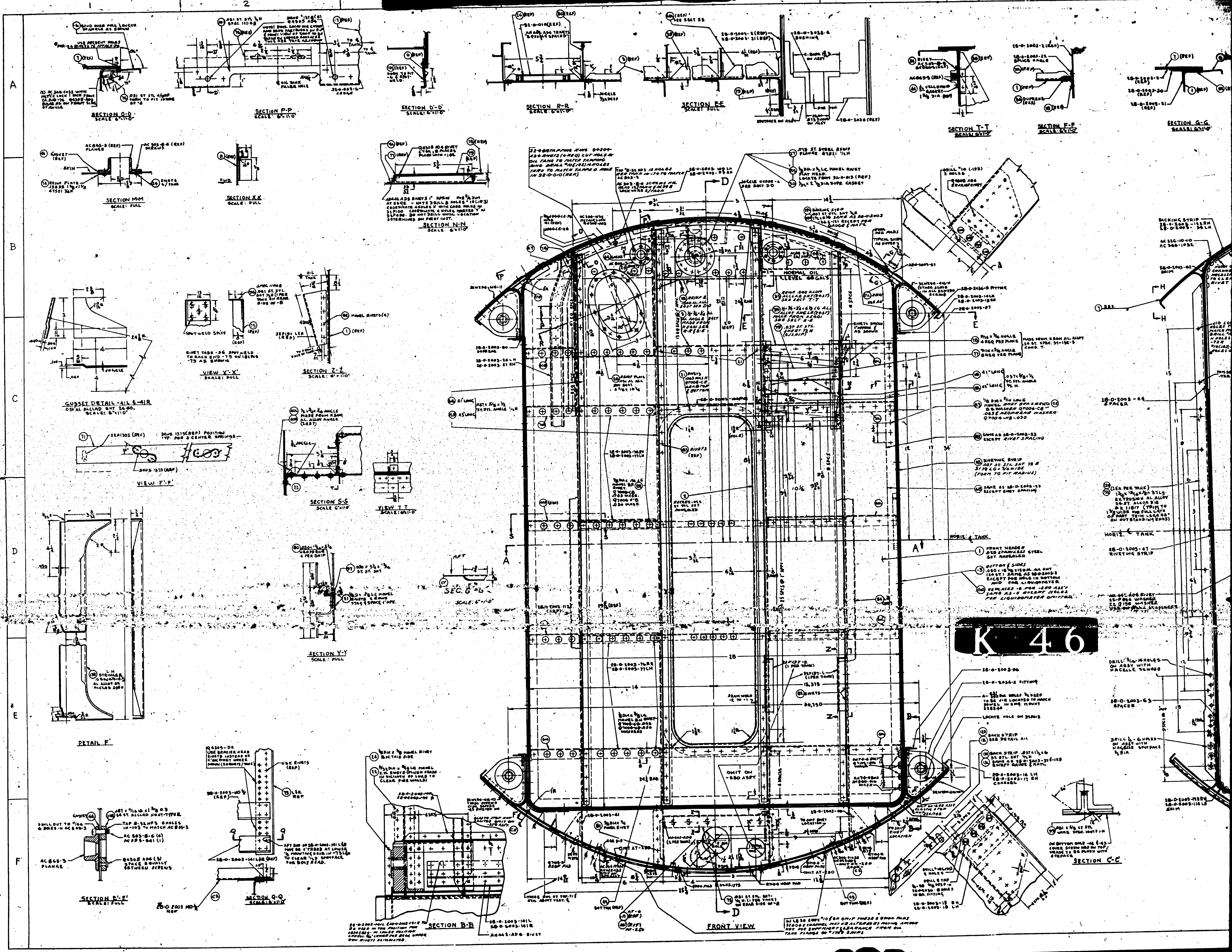
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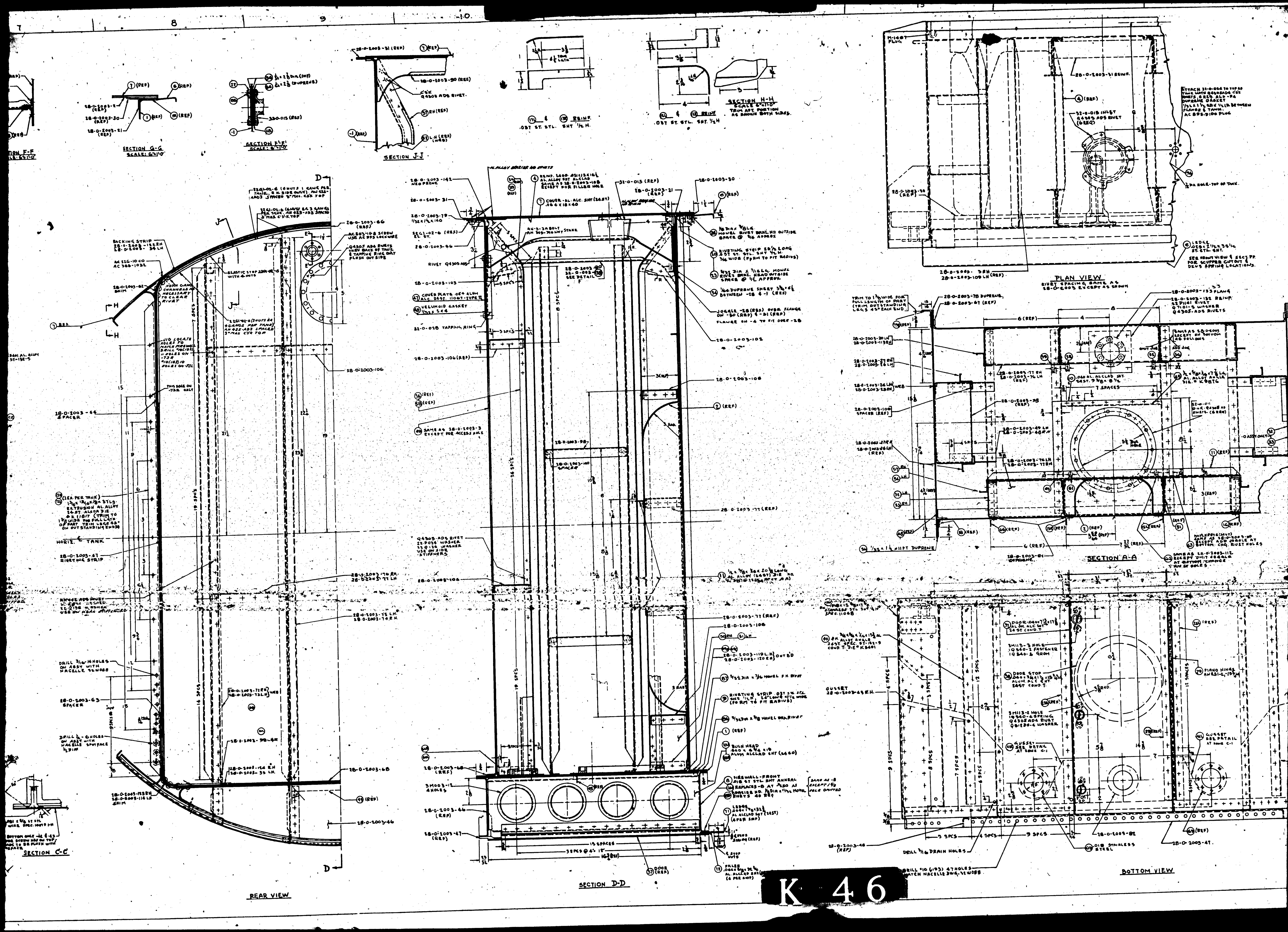


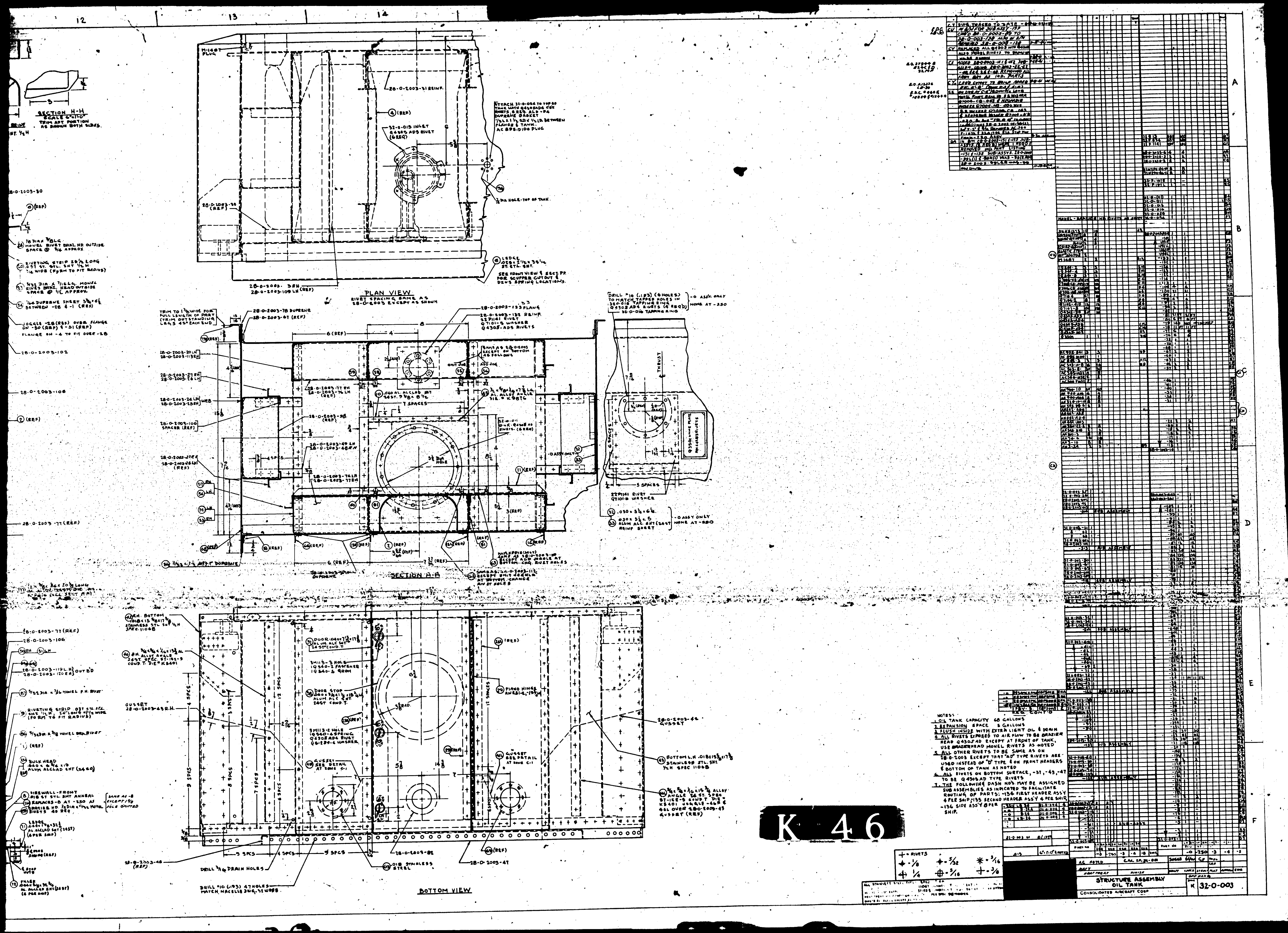
32-0-006-2R INSTALLATION RIGHT HAND INBOARD COOLER
CHORD LINE
THRUST LINE
DETAIL OF 105
SCALE: 12" = 1'-0"
RIGHT INBOARD NACELLE ASSY.
RIGHT SIDE VIEW
TYPICAL DETAIL SHOWING CLEARANCE BETWEEN ENDS OF TUBES
DETAIL B-B
SCALE: 6" = 1'-0"
32W1107 STA #7 (REF)
CHORD (REF)
VIEW - SHOWING TYPICAL METHOD OF BONDING OIL COOLER TUBES AT BLKD STA. 7 (LB-30 ONLY)
SWAGE TUBE
DETAIL A
LEFT INBOARD NACELLE ASSY.

K 45

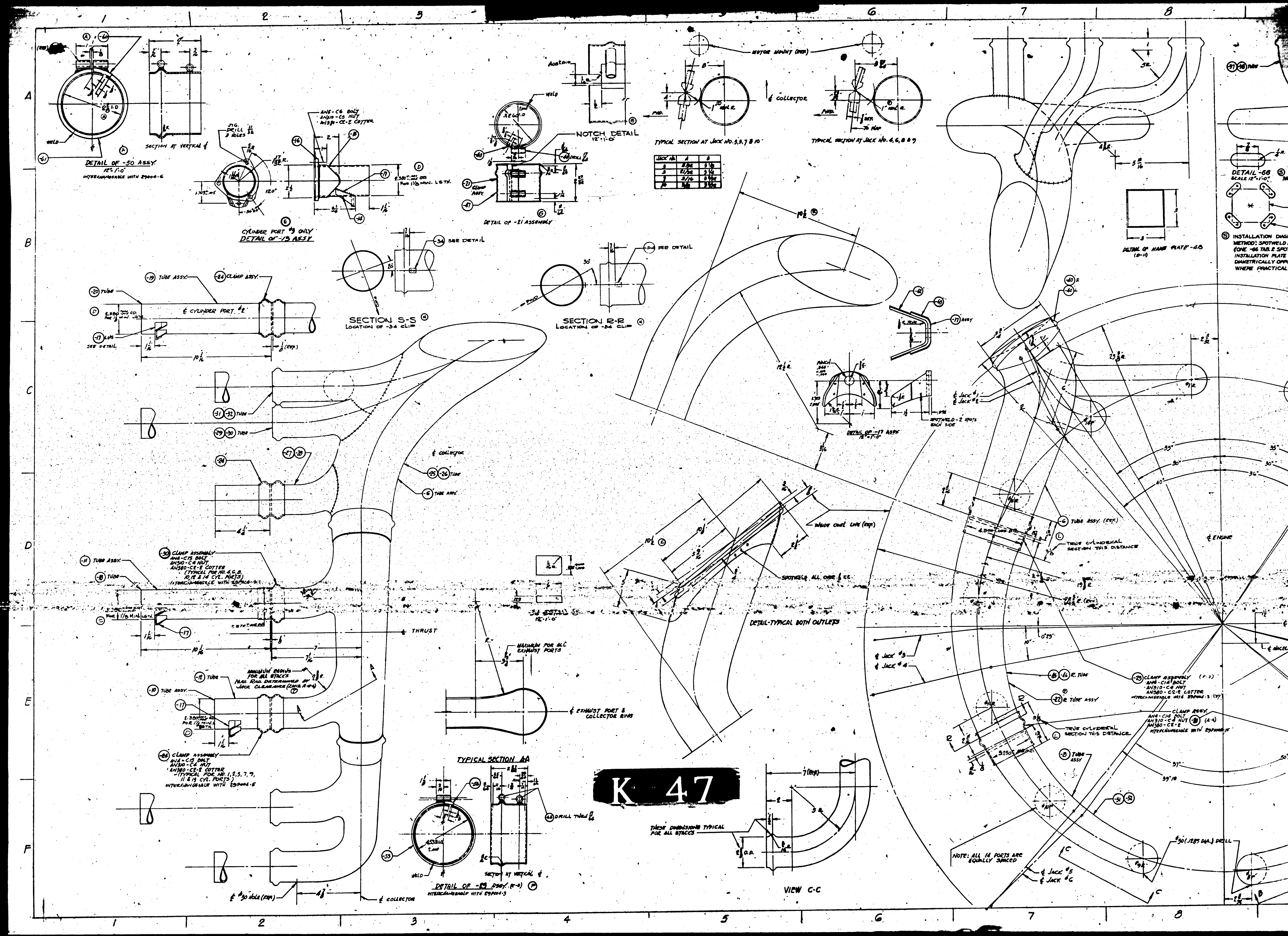

RIGHT INBOARD NACELLE (3) ASSY.
FRONT VIEW
VIEW Z-Z
BOTTOM VIEW Z-Z
LEFT INBOARD NACELLE (2) ASSY.
LEFT SIDE VIEW
32-0-006-2L INSTALLATION LEFT HAND INBOARD COOLER
FOR LOCATION OF VISCOSITY VALVES ON COOLERS, SEE 32-0-006 & 32-0-005 OIL COOLER INST'S
NOTES:
1. FOR OIL SYSTEM DIAGRAM, SEE DRWG 32-0-002.
2. MARK OIL LINES WITH A ½" WIDE BRIGHT YELLOW BAND NEAR EACH END & AT SUCH INTERMEDIATE POINTS AS MAY BE NECESSARY TO FOLLOW THROUGH THE SYSTEM. PAINT BLACK NUMBERS NEAR ACCESSIBLE END.
3. USE CHAFING HOSE & FRICTION TAPE WHERE NECESSARY.
4. USE PARKER "SEALUBE" 6PE, OR EQUIVALENT, ON ALL DURAL THREADS.
5. BONDING TO BE IN ACCORDANCE WITH DRWG 28E4027-1(REF)
6. REQ'D ARE PER AIRPLANE
7. ALL TUBES TO HAVE BEADS AS SHOWN BELOW, EXCEPT
TYPICAL BEAD ON OIL TUBES
SHEET 1 OF 4
PARTS LIST PER ASSY.
NAME INSTALLATION OIL SYSTEM INBOARD NACELLE
CONSOLIDATED AIRCRAFT CORP.
K 32-0-001
K 45


SECTION P-P
SECTION D'-D'
SECTION R-R
SECTION E-E
SECTION T-T
SECTION F-F
SECTION G-G
SECTION M-M
SECTION X-X
SECTION N-N
VIEW Y'-Y'
SECTION Z-Z
VIEW F'-F'
SECTION S-S
VIEW T-T
SECTION Y-Y
DETAIL F'
SECTION Q-Q
SECTION B-B
FRONT VIEW
SECTION C-C
K 46

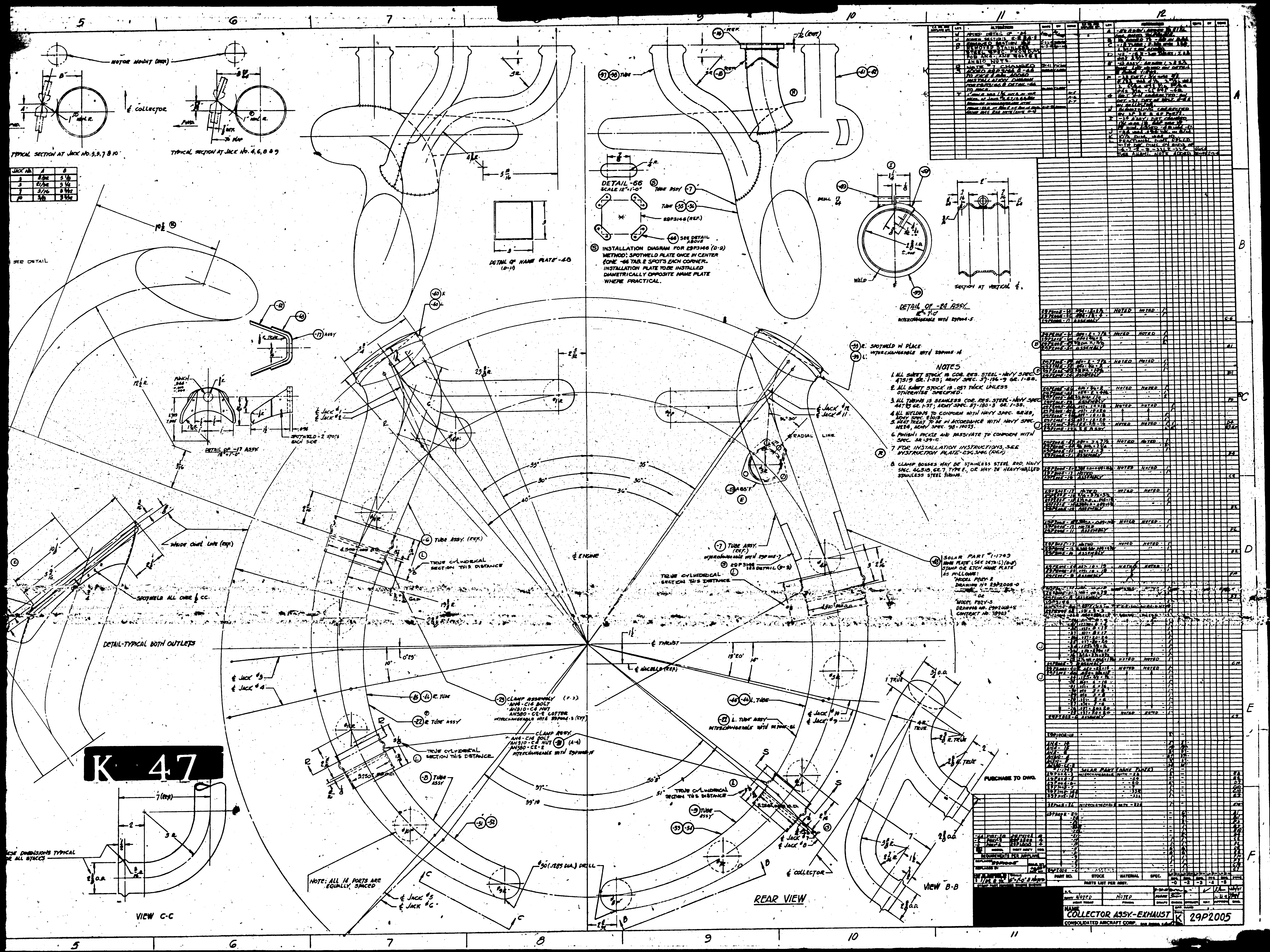

SECTION G-G
SECTION F-F
SECTION J-J
SECTION H-H
PLAN VIEW
SECTION A-A
REAR VIEW
SECTION D-D
SECTION C-C
BOTTOM VIEW
K 46

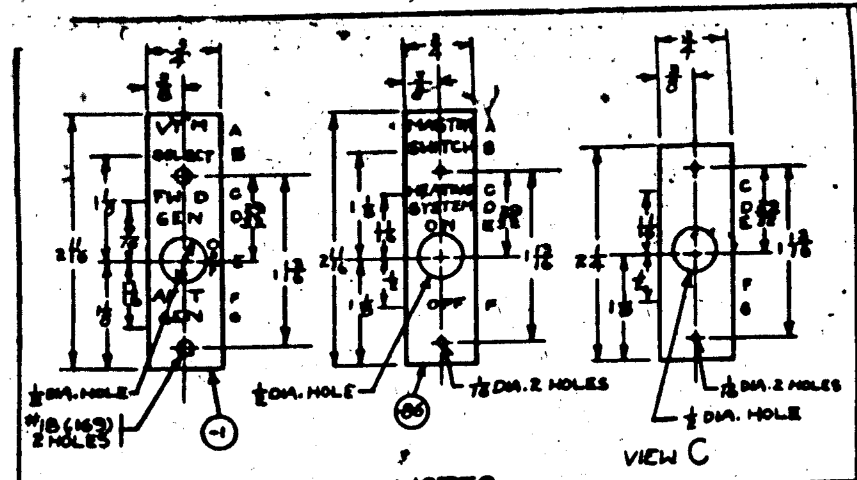


SECTION H-H
PLAN VIEW
SECTION A-A
BOTTOM VIEW
NOTES:
1. OIL TANK CAPACITY 68 GALLONS
2. EXPANSION SPACE 5 GALLONS
3. FLUSH INSIDE WITH EXTRA LIGHT OIL & DRAIN
4. ALL RIVETS EXPOSED TO AIR FLOW TO BE BRAZIER HEAD Q4305AD EXCEPT AT FRONT OF TANK, USE BRAZIERHEAD MONEL RIVETS AS NOTED
5. ALL OTHER RIVETS TO BE SAME AS ON 28-0-2003 EXCEPT THAT "AD" TYPE RIVETS ARE USED INSTEAD OF "D" TYPE & ON FRONT HEADERS & BOTTOM OF TANK AS NOTED
6. ALL RIVETS ON BOTTOM SURFACE, -37, -43, -47 TO BE Q4305AD TYPE RIVETS
7. THE FOLLOWING DASH NO'S. MAY BE ASSIGNED SUB ASSEMBLIES AS INDICATED TO FACILITATE ROUTING OF PARTS: -134 FIRST HEADER ASS'Y 4 PER SHIP; -135 SECOND HEADER ASS'Y 4 PER SHIP; -136 SIDE ASS'Y 8 PER SHIP.
K 46
STRUCTURE ASSEMBLY
OIL TANK
CONSOLIDATED AIRCRAFT CORP
32-0-003



K 47
DETAIL OF -50 ASSY
CYLINDER PORT #3 ONLY
DETAIL OF -13 ASSY
NOTCH DETAIL
DETAIL OF -21 ASSEMBLY
TYPICAL SECTION AT JACK NO. 3, 5, 7 & 10
TYPICAL SECTION AT JACK NO. 4, 6, 8 & 9
SECTION S-S
SECTION R-R
DETAIL-TYPICAL BOTH OUTLETS
TYPICAL SECTION A-A
DETAIL OF -89 ASSY.
VIEW C-C
NOTE: ALL 14 PORTS ARE EQUALLY SPACED
THESE DIMENSIONS TYPICAL FOR ALL STACKS
DETAIL -66
THRUST


K 47
TYPICAL SECTION AT JACK NO. 3, 5, 7 & 10
TYPICAL SECTION AT JACK NO. 4, 6, 8 & 9
℄ COLLECTOR
MOTOR MOUNT (REF)
DETAIL -66
SCALE 12"=1'-0"
DETAIL OF NAME PLATE -48
INSTALLATION DIAGRAM FOR 29P3146 (D-2)
METHOD: SPOTWELD PLATE ONCE IN CENTER ZONE -66 TAB. 2 SPOTS EACH CORNER. INSTALLATION PLATE TO BE INSTALLED DIAMETRICALLY OPPOSITE NAME PLATE WHERE PRACTICAL.
DETAIL OF -24 ASSY.
SECTION AT VERTICAL ℄
DETAIL OF -17 ASSY
NOTES
1. ALL SHEET STOCK IS COR. RES. STEEL-NAVY SPEC. 47S19 GR. 1-SS; ARMY SPEC. 57-136-9 GR. 1-SS.
2. ALL SHEET STOCK IS .037 THICK UNLESS OTHERWISE SPECIFIED.
3. ALL TUBING IS SEAMLESS COR. RES. STEEL-NAVY SPEC. 44T17 GR. 1-ST; ARMY SPEC. 57-180-3 GR. 1-SS.
4. ALL WELDING TO CONFORM WITH NAVY SPEC. SR-29, ARMY SPEC. 82013.
5. HEAT TREAT TO BE IN ACCORDANCE WITH NAVY SPEC. M224, ARMY SPEC. 98-10023.
6. FINISH: PICKLE AND PASSIVATE TO CONFORM WITH SPEC. SR-39-C.
7. FOR INSTALLATION INSTRUCTIONS, SEE INSTRUCTION PLATE-29P3146 (REF.)
8. CLAMP BOSSES MAY BE STAINLESS STEEL ROD, NAVY SPEC. 46S18, GR. 7, TYPE E, OR MAY BE HEAVY-WALLED STAINLESS STEEL TUBING.
℄ ENGINE
℄ THRUST
℄ NACELLE (REF)
RADIAL LINE
TRUE CYLINDRICAL SECTION THIS DISTANCE
DETAIL-TYPICAL BOTH OUTLETS
SPOTWELD ALL OVER
NOTE: ALL 14 PORTS ARE EQUALLY SPACED
REAR VIEW
VIEW C-C
VIEW B-B
℄ COLLECTOR
PURCHASE TO DWG.
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY.
PART NO.
STOCK
MATERIAL
SPEC.
COLLECTOR ASSY.-EXHAUST
CONSOLIDATED AIRCRAFT CORP.
K 29P2005



NOTES

1. LETTERING TO BE 1/8 BETWEEN LINES & 1/8 HIGH-BLOCK-RAISED & POLISHED ABOVE ETCHED DULL-BLACK BACKGROUND.
2. WHEN "F" FOLLOWS PART NO.—ALL LETTERS TO BE PAINTED WITH A FLUORESCENT MATERIAL (SPEC. AN-L-1)
3. MATERIAL—.030 AL.SHEET—SPEC. A.C. 57-151-1HH SPEC. NAVY 47-A2HH

DASH NO.	A	B	C	D	E	F	G
-1			AS SHOWN				
-2	RUN'G	LTS.	ON	—	OFF	—	BLINK
-3	FORM	LTS.	ON	—	OFF	—	BLINK
-4	RADIO	ON	FWD.	GEN.	OFF	AFT.	GEN.
-5	RECEPT	ON	FWD.	GEN.	OFF	AFT.	GEN.
-6	RADIO	POWER	ON	—	—	—	OFF
-7	COMP'P	LIGHT	ON	—	—	—	OFF
-7E	COMP'P	LIGHT	OFF	—	—	—	ON
-8	FLOATS	—	UP	—	OFF	—	DOWN
-9	PITOT	HEATER	ON	—	—	—	OFF
-10	OUTLET	—	ON	—	—	—	OFF
-10E	RECEPT	—	OFF	—	—	—	ON
-10N	STOP CONTACT	—	AAN	—	—	—	UIT
-11	COMP'T	LIGHT	—	—	—	—	—
-11N	PLAFONNIER	—	AAN	—	—	—	UIT
-12	FWD	GEN.	BUS A	—	OFF	—	BUS B
-13	AFT	GEN.	BUS A	—	OFF	—	BUS B
-14	BATT.	NO.1	BUS A	—	OFF	—	BUS B
-15	BATT.	NO.2	BUS A	—	OFF	—	BUS B
-16	LOAD	ON	BUS A	—	OFF	—	BUS B
-17	BANK	MOTOR	ON	—	—	—	OFF
-18	RADIO	—	ON	—	—	—	OFF
-19	RESET	—	ON	—	—	—	OFF
-20	ARMING	—	ARM	—	—	—	SAFE
-21	BANK	TURN	BANK	—	—	—	CENTER
-22	R.D.I.	—	ON	—	—	—	OFF
-23	PRIMER	1	ON	—	—	—	OFF
-24	PRIMER	2	ON	—	—	—	OFF
-25	PRIMER	3	ON	—	—	—	OFF
-26	PRIMER	4	ON	—	—	—	OFF
-27	OIL	DILUTE	ON	1	—	—	OFF
-28	OIL	DILUTE	ON	2	—	—	OFF
-29	OIL	DILUTE	ON	3	—	—	OFF
-30	OIL	DILUTE	ON	4	—	—	OFF
-31	ENG.	1	START	—	OFF	—	MESH
-32	ENG.	2	START	—	OFF	—	MESH
-33	ENG.	3	START	—	OFF	—	MESH
-34	ENG.	4	START	—	OFF	—	MESH
-35	GEN.	NO.1	ON	—	—	—	OFF
-36	GEN.	NO.2	ON	—	—	—	OFF
-37	GEN.	NO.3	ON	—	—	—	OFF
-38	GEN.	NO.4	ON	—	—	—	OFF
-39	PASS	LTS.	ON	—	—	—	OFF
-40	DIRECT	GYRO	LIGHT	ON	—	—	OFF
-41	TABLE	LIGHT	ON	—	—	—	OFF
-42	DRIFT	INSTR.	LIGHTS	ON	—	—	OFF
-43	INSTR.	LIGHTS	ON	—	—	—	OFF
-44	PROP NO.1	CONTROL	HIGH	R.P.M.	OFF	LOW	R.P.M.
-45	PROP NO.2	CONTROL	HIGH	R.P.M.	OFF	LOW	R.P.M.
-46	PROP NO.3	CONTROL	HIGH	R.P.M.	OFF	LOW	R.P.M.
-47	PROP NO.	CONTROL	HIGH	R.P.M.	OFF	LOW	R.P.M.
-48	FLOW	METER	ON	—	—	—	OFF
-49	A.F.C.	LIGHTS	ON	—	—	—	TEST
-50	DOME	LIGHTS	ON	—	—	—	OFF
-51	FLAPS		UP	—	OFF	—	DOWN
[illegible]	[illegible]	[illegible]	[illegible]	—	—	—	[illegible]
-54	HEATING	FANS	ON	—	—	—	OFF
-55	SYSTEM	BOILER	ON	—	—	—	OFF
-56	HEATING	SYSTEM	BOILER	ON		—	OFF
-57	RELAYS	ON	BATT.	NO.1		BATT.	NO.2
-58	FUEL	LT.	ON	—	—	—	OFF
-59	MANUAL	[illegible]	UP	[illegible]	[illegible]	—	[illegible]
-60	AUTO	—	ON	—	—	—	OFF
-61	BOMB	RELEASE	SIGNAL	ON	—	—	OFF
-62	PROJ.	LIGHT	ON	—	—	—	OFF
-62N	PROJECTEUR	—	AAN	—	—	—	UIT
-62F	PROJ.	LIGHT	OFF	—	—	—	ON
-63	LEFT	INBD.	REVERSE	—	NORMAL	—	RETURN
-64	RIGHT	INBD.	REVERSE	—	NORMAL	—	RETURN
-65	VAC.	PUMP	ON	—	—	—	OFF
-66	FLARE	RELEASE	LEFT	—	OFF	—	RIGHT
-67	FIRING	KEY	ON	—	—	—	OFF
-68	ANCHOR	LIGHTS	ON	—	—	—	OFF
-69	HATCH	LIGHT	—	—	—	—	
-70	RECEPT	—	ON	—	—	—	OFF
-71	ANCHOR	MOTOR	ON	—	—	—	OFF
-72	TURRET	MOTOR	ON	—	—	—	OFF
-73	MIRROR	LIGHT	ON				OFF
-74	PRIMERS	—	NO.1	ON	OFF	ON	NO.2
-75	PRIMERS	—	NO.3	ON	OFF	ON	NO.4
-77	GUN	TRIGGER	—	ON	—	OFF	—
-78	POSITION	LIGHTS	BRIGHT	—	?F	—	DIM
-79	EMERGENCY	ALARM	ON	—		—	OFF
-80	NAVIG.	LTS	ON	—		—	OFF
-81	OIL	DILUTE	ON	—	—	—	OFF
-82	CARB.	HEAT	COLD	—	—	—	HOT
-83	INST.	LIGHTS	PILOTS	ON	—	—	OFF
-84	INST.	LIGHTS	BOMBERS	ON	—	—	OFF
-85	DRIFT	METER	ON	—	—	—	OFF
-86			AS SHOWN				
-87	HYDRO	BOOSTER	PUMP	ON	—	—	OFF
-88	BOMB	FUSE	NOSE	ON	—	—	SAFE
-89	BOMB	FUSE	TAIL	ON	—	—	SAFE
-90	HEATING	SYSTEM	ON	—	—	—	OFF
-91	TURRET	MOTOR	—	—	—	—	—
-92	FIRING	KEY	RELEASE	BOMBS	OFF	RELEASE	TORPEDO
-93	HEATING	SYSTEM	LEFT	ON	—	—	OFF
-94	HEATING	SYSTEM	ON	—	—	—	OFF
-95	—	—	TRAIN	RELEASE	OFF	SELECT	RELEASE
-96	STAB.	POWER	ON	—	—	—	OFF
-97	SALVO	SIGNAL	ON	—	—	—	OFF
-98	OIL	HEATER	ON	—	—	—	OFF
-99	AUX.	ENG.	START	—	—	—	STOP
-100	BATT.	L.H.	ON	—	—	—	OFF
-101	HEATER	IGNITER	ON	—	—	—	OFF
-102	APU.	—	START	—	—	—	RUN

DASH NO.	A	B	C	D	E	F	G
-103	OIL	DILUTE	—	—	ON	LEFT	ENGINE
-104	OIL	DILUTE	—	—	ON	RIGHT	ENGINE
-105	AUX.	ENG.	START	—	—	—	—
-106	AUX.	POWER	NO.1	MAG.	—	—	OFF
-107	AUX.	POWER	NO.2	MAG.	—	—	OFF
							VIEW "C"
-108N	—	—	BOM 6	—	—	—	AF ←
-109N	—	—	BOM 8	—	—	—	AF ←
-110N	—	—	BOM 7	—	—	—	AF ←
-111N	—	—	BOM 5	—	—	—	AF ←
-112	EMERG.	LIGHT	—	—	—	—	—
-113	GEN.	INSTR.	ON	—	—	—	OFF
-114	INVERTER		ON	—	—	—	OFF
-115	NOSE	FUSE	ON	—	—	—	OFF
-116	TAIL	FUSE	ON	—	—	—	OFF
-117	ARMING	MK [illegible]	ARMED	—	—	—	SAFE
-118	FLOAT	CHECK	—	ON	—	OFF	—
							VIEW "C"
-119N	—	—	BOM 2	—	—	—	AF ←
-120N	—	—	BOM 4	—	—	—	AF ←
-121N	—	—	BOM 3	—	—	—	AF ←
-122N	—	—	BOM 1	—	—	—	AF ←
-123	OIL	DILUTE	—	—	OFF	LEFT	ENGINE
-124	OIL	DILUTE	—	—	OFF	RIGHT	ENGINE
-125	INTER.	COOLER	NO.1	ON	—	OFF	—
-126	INTER.	COOLER	NO.2	ON	—	OFF	—
-127	INTER.	COOLER	NO.3	ON	—	OFF	—
-128	INTER.	COOLER	NO.4	ON	—	OFF	—
-129	BOMB	BAY	LIGHT	—	—	—	FWD
-130	BOMB	BAY	LIGHT	—	—	—	AFT
-131	COMPASS	LIGHT	ON	—	—	—	OFF
-132	INDICAT.	LIGHTS	ON	—	—	—	OFF
-133	BOM	SIGHT	ON	—	—	—	OFF
-134	BOMB	REL.	ON	—	—	—	OFF
-135	TURRET	LIGHTS	UPPER	ON	—	—	OFF
-136	TURRET	LIGHTS	LOWER	ON	—	—	OFF
-137	GUN	CAMERA	ON	—	—	—	OFF
-138	BOMBERS	RADIO OR	HEATERS	ON	—	OFF	—
-138F	BOMBERS	RADIO OR	HEATERS	ON	—	OFF	
-139	MONITOR	SWITCH	NORMAL	—	—	—	MONITOR
-140	AFT. COMPT.	LIGHTS	—	ON	—	OFF	—
-141	FWD. BOMB	BAY LTS.	—	ON	—	OFF	—
-142	PRESSURE	ALARM	—	ON	—	OFF	—
-143	TURRET	LIGHTS	—	ON	—	OFF	—
-144	REC'R'G	HEATER	—	ON	—	OFF	—
-145		CAMERA	—	ON	—	OFF	—
-146	ANTI-ICER	—	ON	—	—	—	OFF
-147	DE-ICER	—	ON	—	—	—	OFF
-148	PRIMER	—	ON	—	—	—	OFF
-149	REAR	CABIN	ON	—	—	—	OFF
-150	BOOSTER	COIL	ON	—	—	—	OFF
-151	CABIN	AIR R.H.	ON	—	—	—	OFF
-152	CABIN	AIR L.H.	ON	—	—	—	OFF
-153	CENTER	BATTERY	ON	—	—	—	OFF
-154	REAR	BAY	DOORS	OPEN	—	DOORS	CLOSED
-155	FRONT	BAY	DOORS	OPEN	—	DOORS	CLOSED
-156	BOMB	DOOR	INDICAT.	LIGHTS	—	—	TEST
-157	STARTER	MESHING	—	ON	—	OFF	—
-158	OIL	DILUTE	—	ON	—	OFF	—
-159	LANDING	GEAR	SIGNAL	ON	—	OFF	—
-160	CABIN	AIR REG.	R.H.	ON	—	OFF	—
-161	CABIN	AIR REG.	L.H.	ON	—	OFF	—
-162	COWL	FLAPS	NO.1	ON	—	OFF	—
-163	COWL	FLAPS	NO.2	ON	—	OFF	—
-164	COWL	FLAPS	NO.3	ON	—	OFF	—
-165	COWL	FLAPS	NO.4	ON	—	OFF	—
-166	AFT. CABIN	PRESSURE	VALVE	ON	—	OFF	—
-167	PROP.	GOV.	NO.1	ON	—	OFF	—
-168	PROP.	GOV.	NO.2	ON	—	OFF	—
-169	PROP.	FEATHER	NO.1	ON	—	OFF	—
-170	PROP.	FEATHER	NO.2	ON	—	OFF	—
-171	LANDING	LIGHTS	—	ON	—	OFF	—
-172	POSITION	LIGHTS	—	ON	—	OFF	—
-173	RECOG.	LIGHT	—	ON	—	OFF	—
-174	FORM.	LIGHTS	—	ON	—	OFF	—
-175	ANTI-ICER	IN'BD	—	ON	—	OFF	—
-176	ANTI-ICER	OUT'BD	—	ON	—	OFF	—
-177	—	—	INTERVAL-	OMETER	ON	—	OFF
-178	F.C.O.	HTR. RECP.	—	ON	—	OFF	—
-179	NAVIG.	HTR. RECP.	—	ON	—	OFF	—
-180	—	—	CAMERA	ON	—	OFF	VIEW "C"
-181	3 VOLT	POWER	—	ON	—	OFF	—
-182	INTERVAL-	OMETER	—	ON	—	OFF	—
-183	FLYING	SUIT	—	ON	—	OFF	—
-184	F.C.O.	HTR. RECP.	[illegible]	ON	[illegible]	OFF	[illegible]
-185	PILOT	HTR. RECP.	—	ON	—	OFF	—
-186	DEFROSTER	FAN	ON	—	—	—	OFF
-187	CO-PILOT'S	HTR. RECP.	—	ON	—	OFF	—
-188	FWD. BOMB	DOORS	—	ON	—	OFF	—
-189	AFT. BOMB	DOORS	—	ON	—	OFF	—
[illegible]	OUTBD FLAPS	EXTEND	[illegible]	ON	[illegible]	OFF	[illegible]
-191	OUTBD FLAPS	RETRACT	[illegible]	ON	[illegible]	OFF	[illegible]
-192	INB'D FLAPS	EXTEND	—	ON	—	OFF	—
-193	INB'D FLAPS	RETRACT.	—	ON	—	OFF	—
-194	LAND GEAR	EXTEND	—	ON	—	OFF	—
-195	LAND GEAR	RETRACT	—	ON	—	OFF	—
-196	BOMB	INTERVAL	CONTROL	ON	—	OFF	—
-197	RADIO OPER.	HTR. RECP.	—	ON	—	OFF	—
-198	ENGINEER	HTR. RECP.	—	ON	—	OFF	—
-199	BOOSTER	COIL	—	ON	—	OFF	—
-200	ELEVATOR	TAB	—	ON	—	OFF	—
-201	RUDDER	TAB	—	ON	—	OFF	—
-202	AILERON	TAB	—	ON	—	OFF	—
-203	CRUISE	VALVE	NO.1	ON	—	OFF	—
-204	CRUISE	VALVE	NO.2	ON	—	OFF	—
-205	CRUISE	VALVE	NO.3	ON	—	OFF	—
-206	CRUISE	VALVE	NO.4	ON	—	OFF	—
-207	PROP.	GOV.	NO.3	ON	—	OFF	—
-208	PROP.	GOV.	NO.4	ON	—	OFF	—
-209	PROP.	FEATHER	NO.3	ON	—	OFF	—
-210	PROP.	FEATHER	NO.4	ON	—	OFF	—
-211	CAMERA	OPERATOR	HTR. RECP.	ON	—	OFF	—
-212	COMPUTER	OPERATOR	HTR. RECP.	ON	—	OFF	—
-213	UP'R BUNK	HTR. RECP.	—	ON	—	OFF	—
214	RELIEF CREW	HTR. RECP.	—	ON	—	OFF	—
-215	TRIM	TABS	—	ON	—	OFF	—
-216	SERVO	HEATER	—	ON	—	OFF	—
-217	HEATERS	PILOTS	CO-PILOTS	TURRET	OFF	DEFROSTER	FANS
-218	FLUORESCENT	LIGHTS	—		—	OFF	—
-219	TAIL	RUNNING	LIGHTS	BRIGHT	OFF	DIM	—
-220	WING	RUNNING	LIGHTS	BRIGHT	OFF	DIM	—
-221	SCR	535	RADIO	ON	—	OFF	—
-222	EXTERNAL	INTERNAL	RACKS	—	—	EXTERNAL	RACKS
-225F	—	NO.3	ACCEL	—	OFF	NO.4	ACCEL.
-227	STOVE	CIRC. BRKR.	ON	—	—	—	—
-229	CAMERA	HEATER	POWER	ON		OFF	
							VIEW "C"
-230	—	—	MARKER	—	ON	OFF	—
-231F	—	NO.1	ACCEL.	—	OFF	NO.2	ACCEL.

DASH NO.	A	B	C	D	E	F	G	NOTE
-235	OIL H'T'R	SW. BRKR	—	—	—	—	—	
-236	—	—	ASSIST	FEED	ON	—	OFF	VIEW "C"
-237	TORPEDO	CAMERA	—	ON	—	OFF	—	
-239	CAMERA	HEATER	ON	—	—	—	OFF	
-240	L. PROP.	BOOSTER	CIRC. BRK'R.	ON	—	—	—	
-241	R. PROP.	BOOSTER	CIRC. BRK'R.	ON	—	—	—	
-245	CAMERA	RECEPT	ON	—	—	—	OFF	
-250	—	NO.1	MESH	—	OFF	NO.2	MESH	
-251	—	NO.3	MESH	—	OFF	NO.4	MESH	
-252	—			—	RELEASE	OFF	—	VIEW "C"
-254F	L. INB'D	TORPEDO	—	—	RELEASE	OFF	—	
-255F	R. INB'D	TORPEDO	—	—	RELEASE	OFF	—	
-256F	SCR	595	RADIO	ON	—	OFF	—	
-258F	TAIL	HEATER	ON	—	—	—	OFF	
-259	—	—	—	ON	—	—	OFF	
-260	BRITISH	MK II	BOMB	SIGHT	ON	OFF		[illegible]
-261	ANCHOR	LIGHTS	ON		OFF	OUTS	CONTR.	
-262	GUN	POWER	—	—	—	—	—	
-263	GUN	SIGHT	—	ON	—	OFF	—	
-264	SIDE GUN	POWER	—	ON	—	—	—	
-265	TORPEDO	DIRECTOR						
-266	OIL	DILUTION	NO.1	ON	OFF	NO.2	ON	
-267	OIL	DILUTION	NO.3	ON	OFF	NO.4	ON	
-300F	6956	—	—	ON	—	OFF	—	

K 48

	G	DASH NO.	A	B	C	D	E	F	G	NOTE
	ENGINE	-235	OIL N'T'R	SH. BR'K'R	—	—	—	—	—	
RIGHT	ENGINE	-236	—	—	ASSIST	FEED	ON	—	OFF	VIEW "C"
—	—	-237	TORPEDO	CAMERA	—	ON	—	OFF	—	
—	OFF								OFF	
—	OFF	-238	CAMERA	HEATER	ON	—	—	—	—	
	VIEW "C"	-240	L. PROP	BOOSTER	CIRC. BR'K'R	ON	—	—	—	
—	AF	-241	R. PROP	BOOSTER	CIRC. BR'K'R	ON	—			
—	AF									
—	AF									
—	AF									
—	—	-245	CAMERA	RECEPT	ON	—	—	—	OFF	
—	OFF									
—	OFF									
—	OFF									
—	OFF									
—	OFF	-250	—	NO.1	MESH	—	OFF	NO.2	MESH	
OFF	—	-251	—	NO.3	MESH	—	OFF	NO.4	MESH	
	VIEW "C"	-252	—			—	RELEASE	OFF	—	VIEW "C"
—	AF									
—	AF	-254	L. INB'D	TORPEDO	—	—	RELEASE	OFF	—	
—	AF	-255	R. INB'D	TORPEDO	—	—	RELEASE	OFF	—	
—	AF	-256	SCR	595	RADIO	ON	—	OFF	—	
LEFT	ENGINE						—	—	OFF	
RIGHT	ENGINE	-258	TAIL	HEATER	ON	—	—	—	OFF	
OFF	—	-259	—	—	—	ON	—	—		ARRANGE SAME AS -86
OFF	—	-260	BRITISH	MK II	BOMB	SIGHT	ON	OFF		
OFF	—	-261	ANCHOR	LIGHTS	ON		OFF	OUTS	CONTR.	
OFF	—	-262	GUN	POWER	—	—	—	—	—	
—	FWD	-263	GUN	SIGHT	—	ON	—	OFF	—	
—	AFT	-264	SIDE GUN	POWER	—	ON	—	—	—	
—	OFF	-265	TORPEDO	DIRECTOR						
—	OFF	-266	OIL	DILUTION	NO.1	ON	OFF	NO.2	ON	
—	OFF	-267	OIL	DILUTION	NO.3	ON	OFF	NO.4	ON	
—	OFF	-268	6956	—	—	ON	—	OFF	—	
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DEFROSTER	FANS									
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DIM	—									
DIM	—									
OFF	—									
EXTERNAL	RACKS									
NO.4	ACCEL.									
—	—									
OFF										
	VIEW "C"									
OFF	—									
NO.2	ACCEL.									

K 48

SEE RELEASE SHEETS

REQUIREMENTS PER AIRPLANE

PARTS LIST PER ASSY.

PART NO.	STOCK	MATERIAL	SPEC.

-0 -2 -3 -4 -5

H.T. NONE — NOTED

MAT. NONE — NOTED

SCALE $\frac{1}{2}$" = 1'-0"

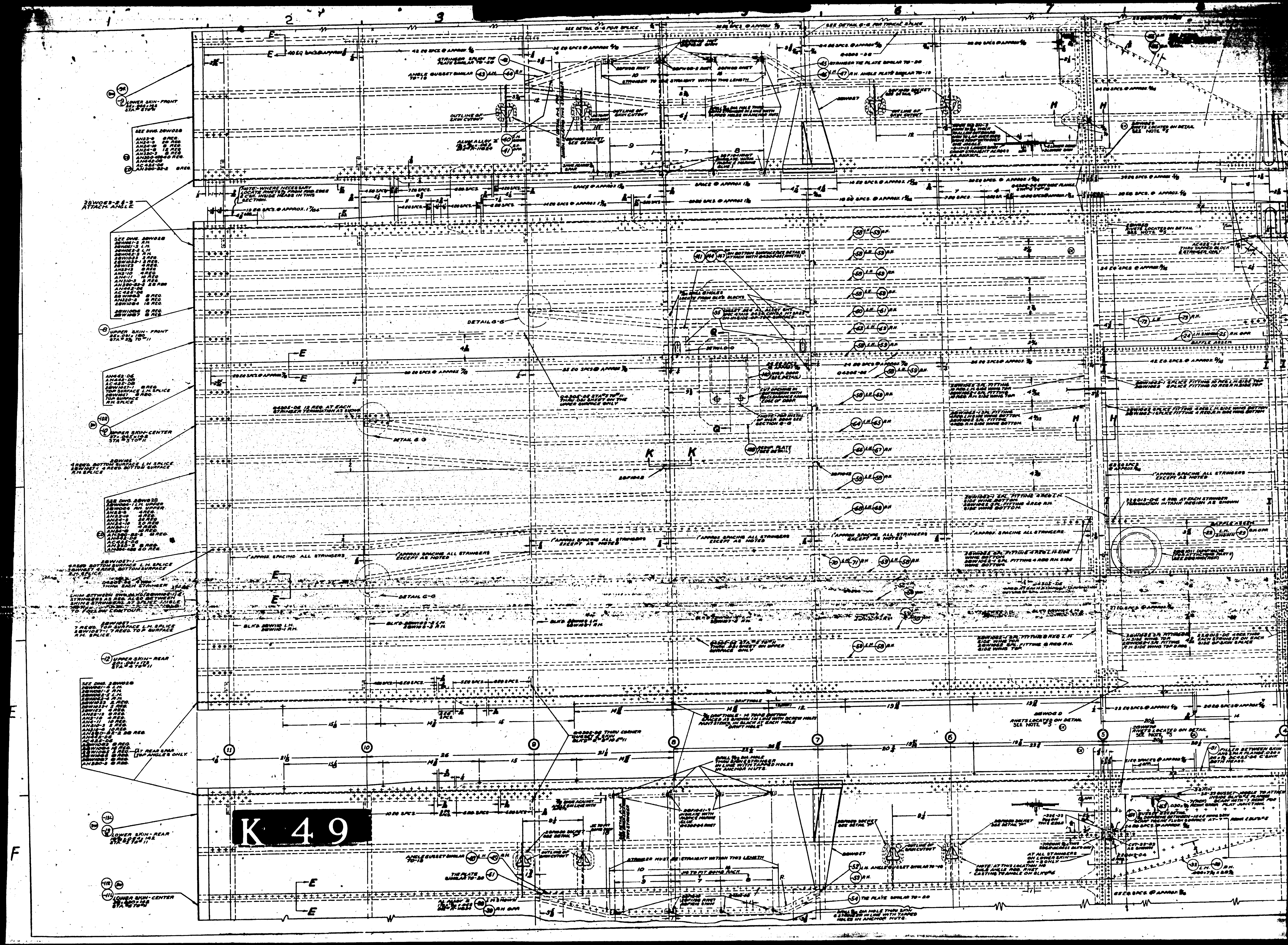
3-5-43

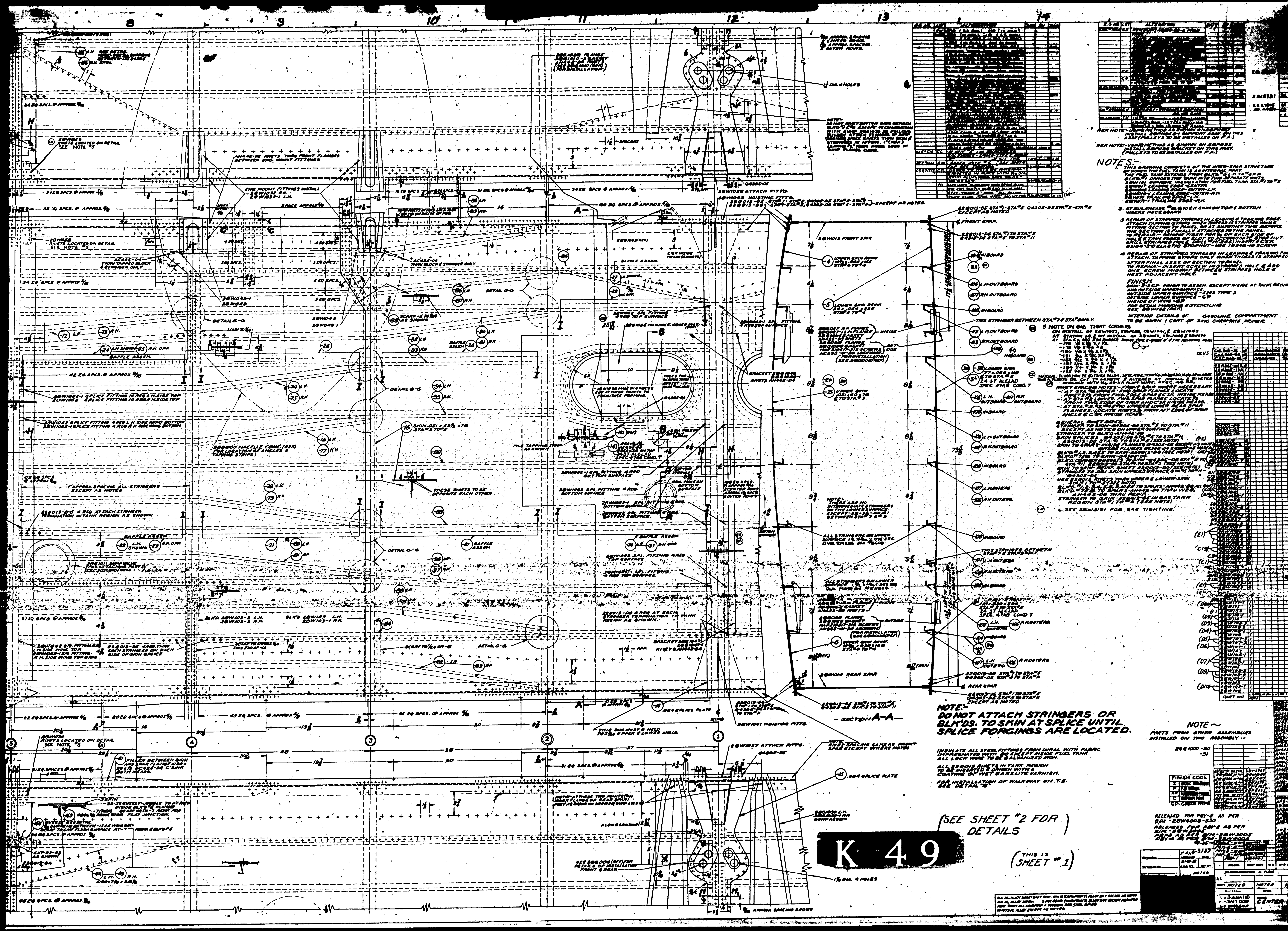
NAME NAMEPLATES–ELEC.– SINGLE POLE SWITCHES

CONSOLIDATED AIRCRAFT CORP.

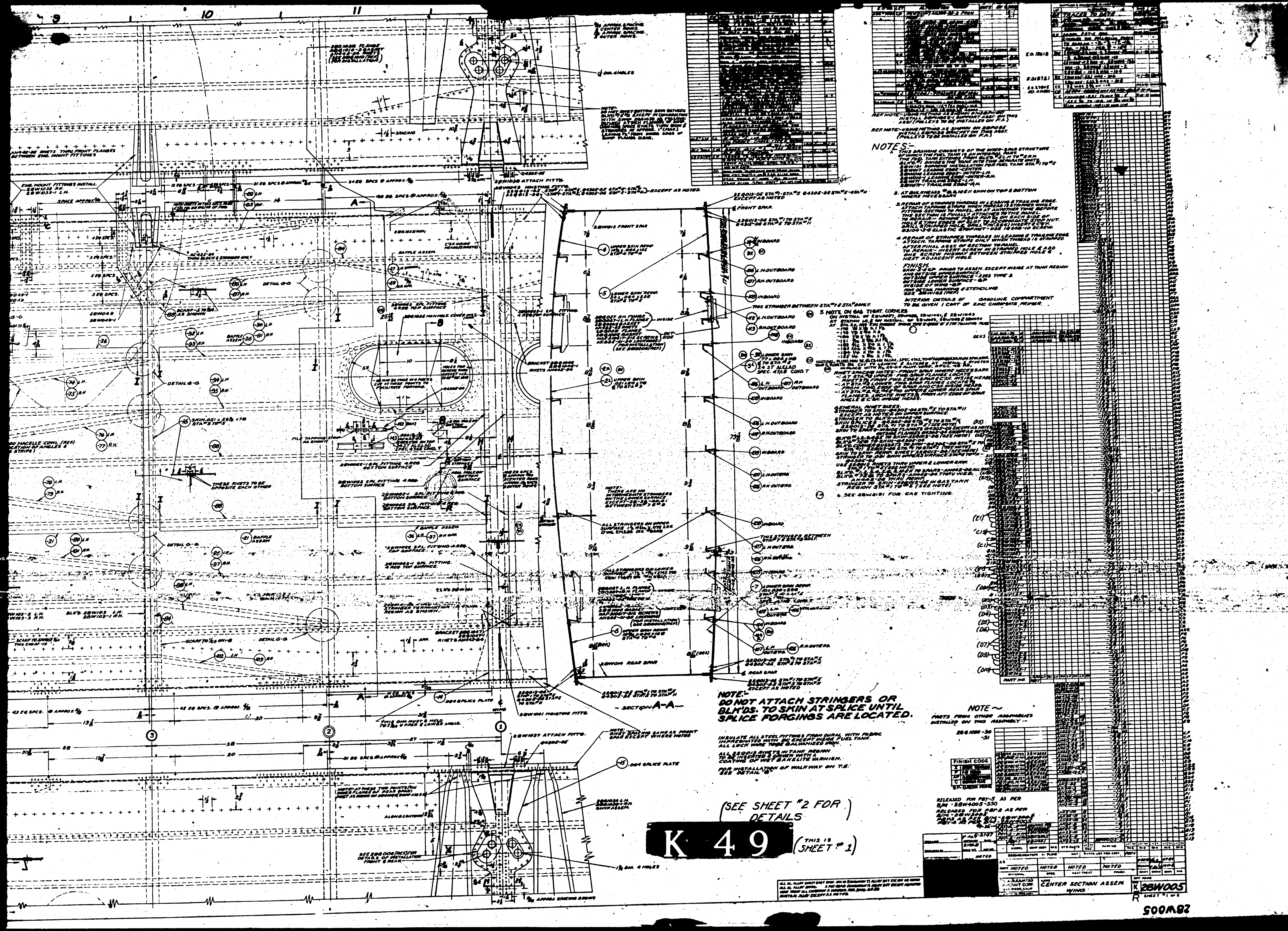
DWG. K NNE018

R

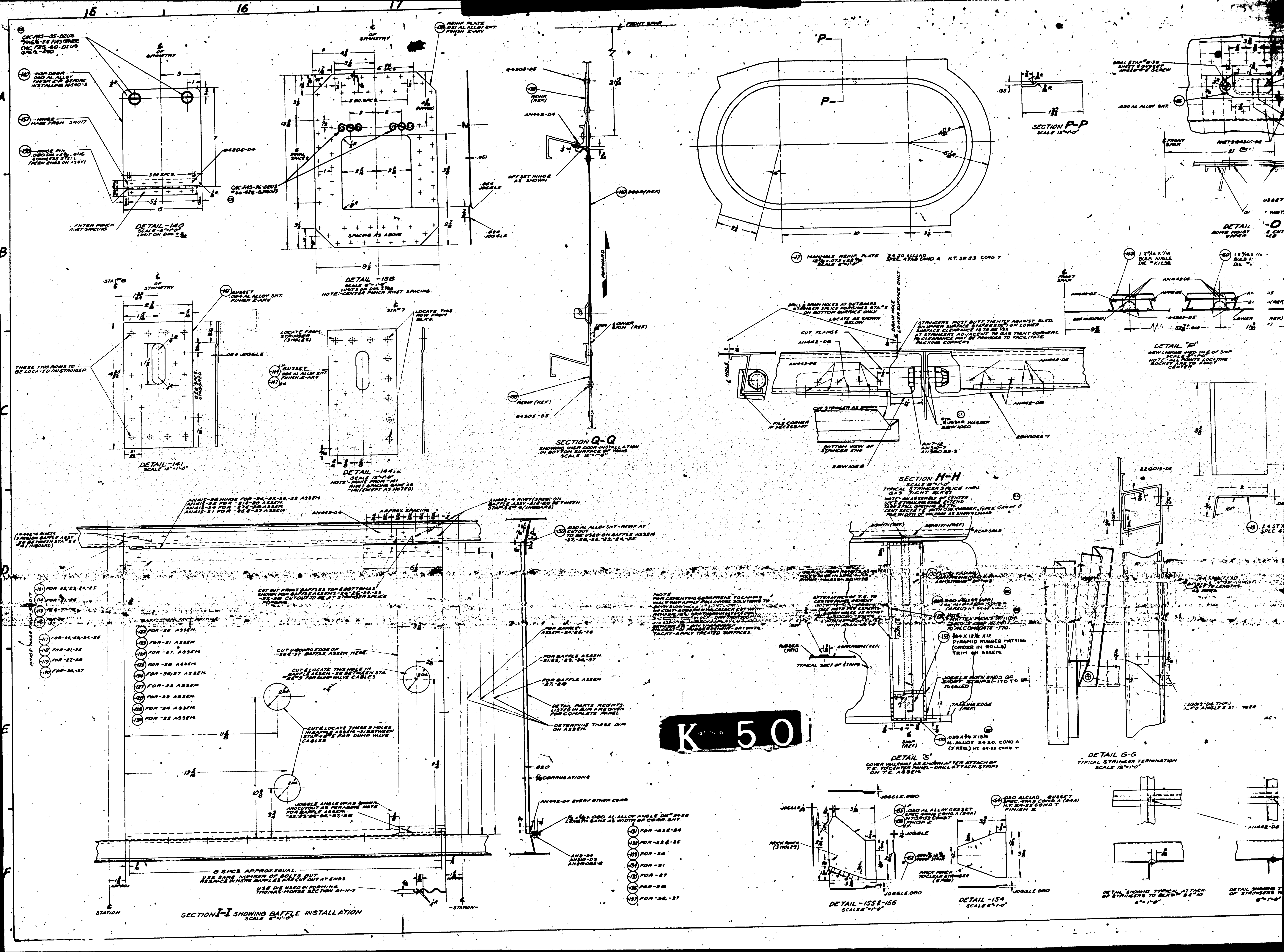

K 49
LOWER SKIN - FRONT
UPPER SKIN - FRONT
UPPER SKIN - CENTER
UPPER SKIN - REAR
LOWER SKIN - REAR
LOWER SKIN - CENTER
DETAIL G-G
ATTACH. ANGLE

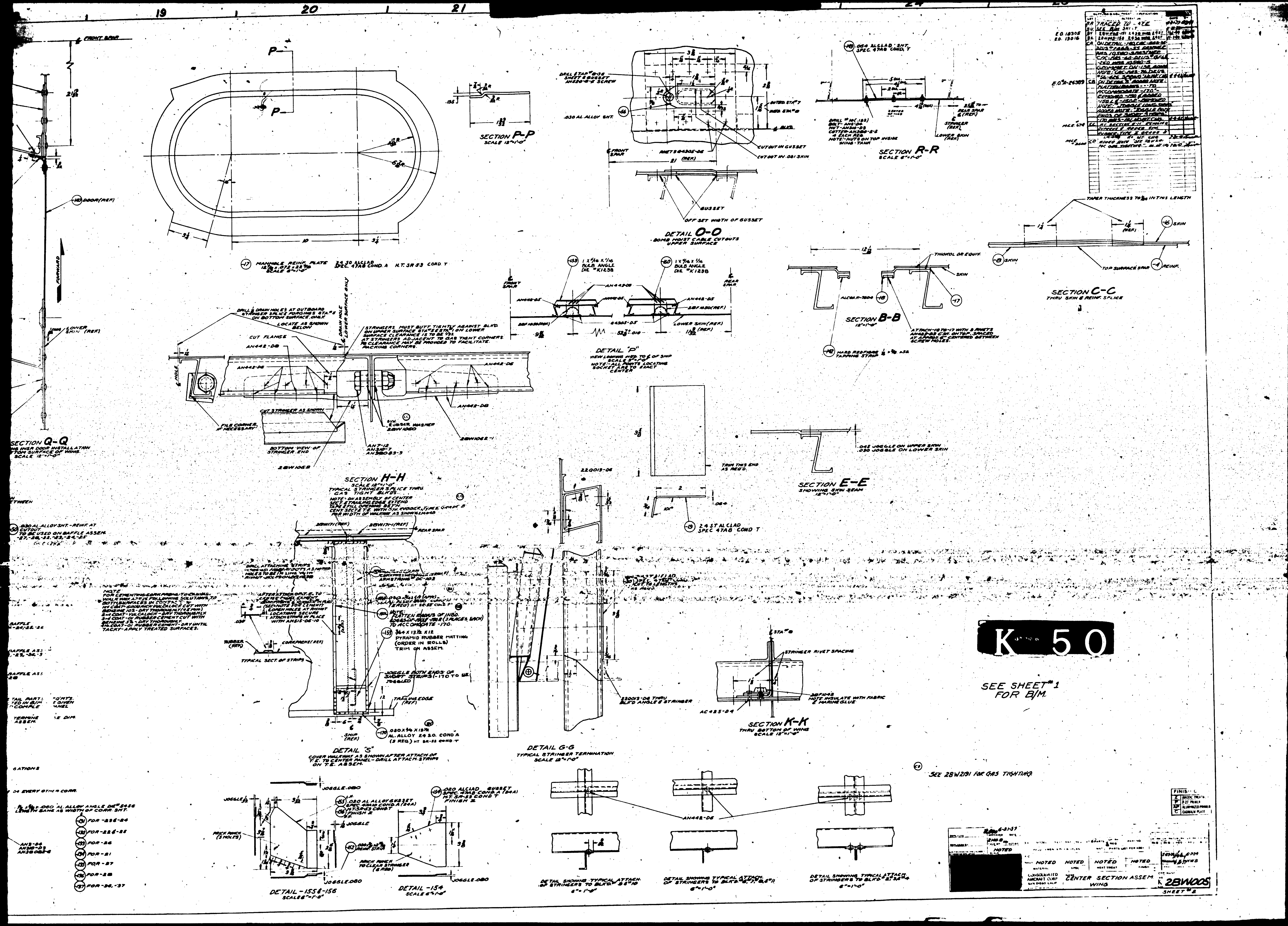


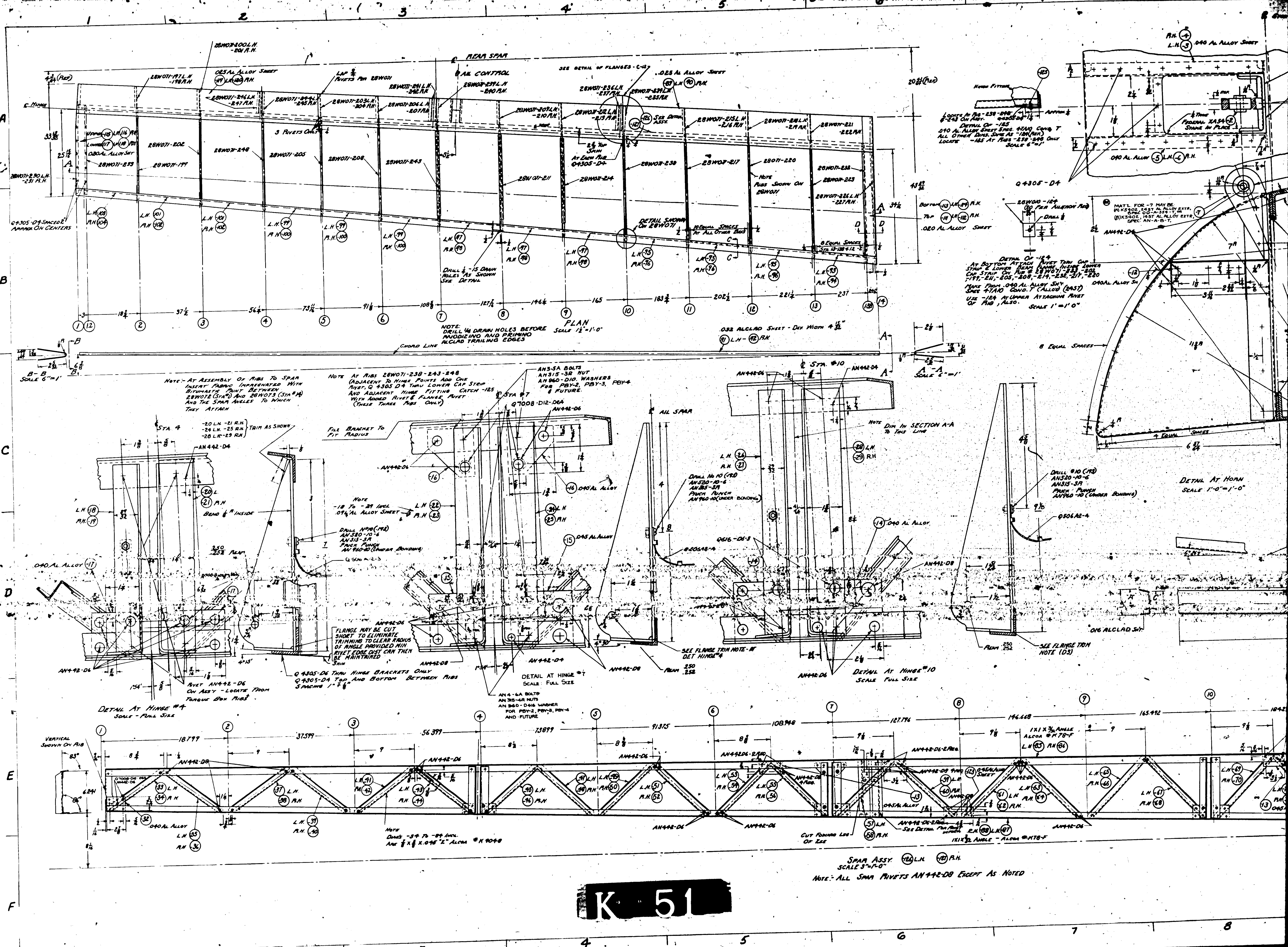
NOTES:-
NOTE:-
DO NOT ATTACH STRINGERS OR BLK'DS. TO SKIN AT SPLICE UNTIL SPLICE FORGINGS ARE LOCATED.
INSULATE ALL STEEL FITTINGS FROM DURAL WITH FABRIC.
SECTION A-A
NOTE ~
PARTS FROM OTHER ASSEMBLIES INSTALLED ON THIS ASSEMBLY :-
(SEE SHEET #2 FOR DETAILS)
(THIS IS SHEET #1)
FINISH CODE
K 49



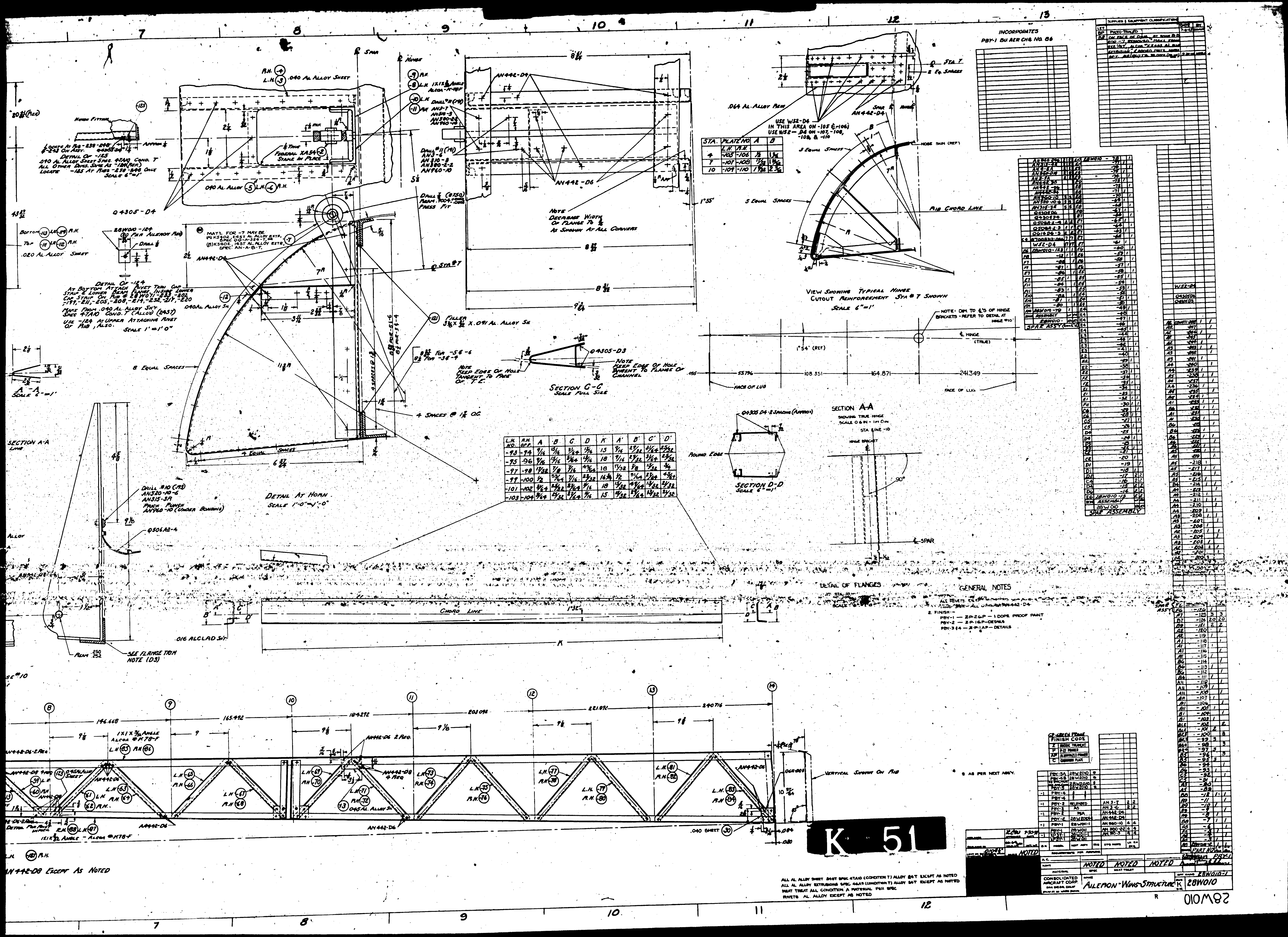
NOTES:-
NOTE:-
DO NOT ATTACH STRINGERS OR BLK'DS. TO SKIN AT SPLICE UNTIL SPLICE FORGINGS ARE LOCATED.
SECTION A-A
(SEE SHEET #2 FOR DETAILS)
K 49
(THIS IS SHEET #1)
NOTE ~
FINISH CODE
CENTER SECTION ASSEM.
WING
28W005


DETAIL -140
DETAIL -138
SECTION Q-Q
SHOWING INSP. DOOR INSTALLATION IN BOTTOM SURFACE OF WING.
SECTION P-P
DETAIL "P"
DETAIL -141
DETAIL -144
SECTION H-H
TYPICAL STRINGER SPLICE THRU GAS TIGHT BLKDS.
SECTION I-I SHOWING BAFFLE INSTALLATION
DETAIL "S"
DETAIL G-G
TYPICAL STRINGER TERMINATION
DETAIL -155 & -156
DETAIL -154
K 50

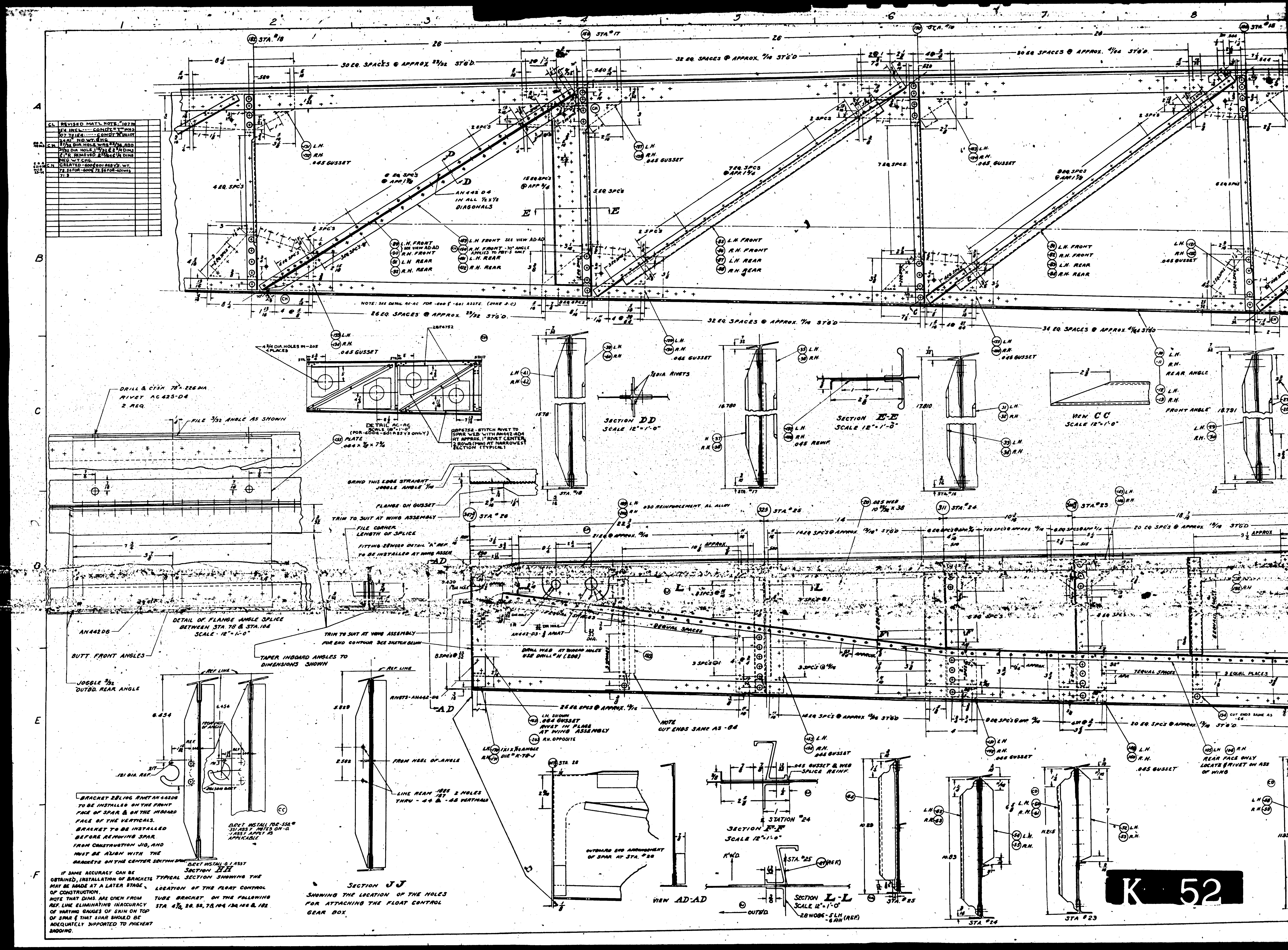

SECTION P-P
SECTION R-R
DETAIL O-O
BOMB HOIST CABLE CUTOUTS UPPER SURFACE
SECTION C-C
THRU SKIN & REINF. SPLICE
SECTION B-B
DETAIL "P"
SECTION Q-Q
SECTION H-H
TYPICAL STRINGER SPLICE THRU
SECTION E-E
SHOWING SKIN SEAM
K 50
SEE SHEET #1 FOR B/M.
SECTION K-K
THRU BOTTOM OF WING
DETAIL "S"
DETAIL G-G
TYPICAL STRINGER TERMINATION
SEE 2BW2131 FOR GAS TIGHTING
DETAIL -155 & -156
DETAIL -154
DETAIL SHOWING TYPICAL ATTACH. OF STRINGERS TO BLK'D.
CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF
CENTER SECTION ASSEM WING
2BW005
SHEET #2


PLAN
SCALE 1/2"=1'-0"
NOTE: DRILL 1/4 DRAIN HOLES BEFORE ANODIZING AND PRIMING ALCLAD TRAILING EDGES
REAR SPAR
AIL CONTROL
CHORD LINE
.032 ALCLAD SHEET - DEV WIDTH
B - B SCALE 6"=1'
A - A SCALE 6"=1'
DETAIL AT HINGE #4 SCALE - FULL SIZE
DETAIL AT HINGE #7 SCALE: FULL SIZE
DETAIL AT HINGE #10 SCALE FULL SIZE
DETAIL AT HORN SCALE 1'-0"=1'-0"
DETAIL OF -124
DETAIL OF -125
FLANGE MAY BE CUT SHORT TO ELIMINATE TRIMMING TO CLEAR RADIUS OF ANGLE PROVIDED MIN RIVET EDGE DIST CAN THEN BE MAINTAINED
SPAR ASSY. SCALE 3"=1'-0"
NOTE: ALL SPAR RIVETS AN442-D8 EXCEPT AS NOTED

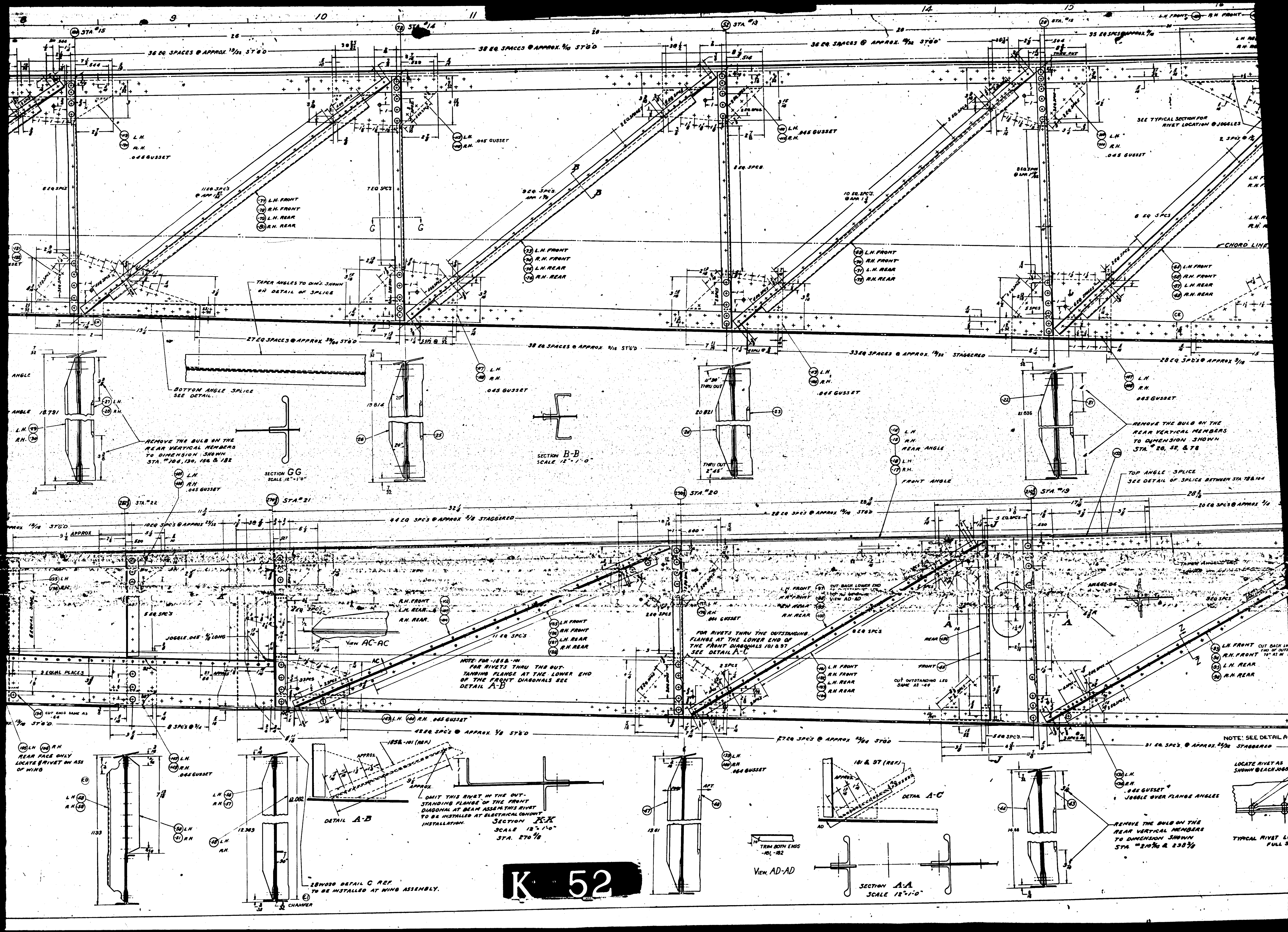
K 51



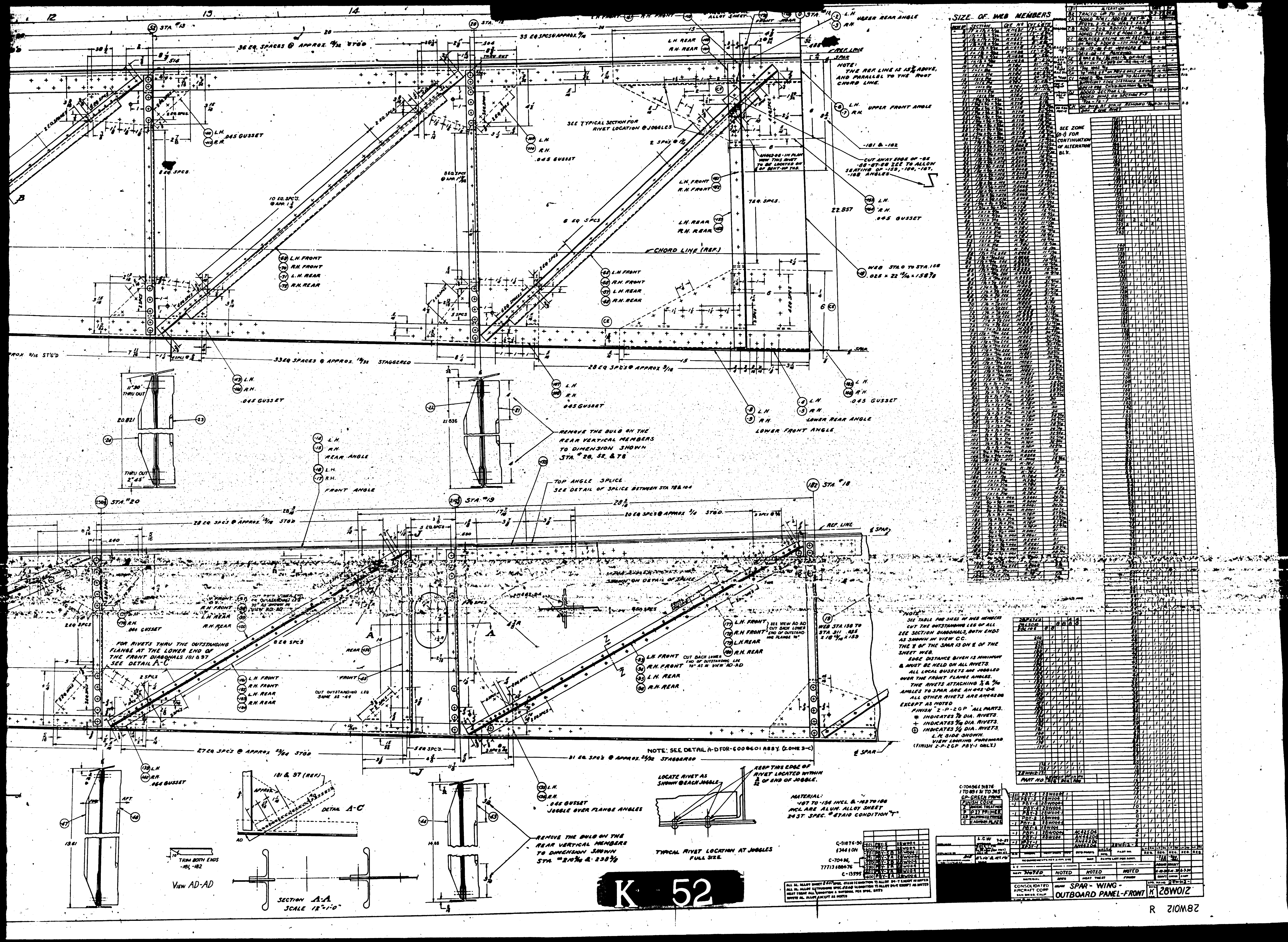
L.H. NO.	R.H. OPP.	A	B	C	D	K	A'	B'	C'	D'
-93	-94	9/16	15/16	31/64	13/16	15	9/16	29/32	31/64	25/32
-95	-96	9/16	15/16	31/64	13/16	18	9/16	29/32	31/64	25/32
-97	-98	17/32	7/8	7/16	49/64	18	17/32	7/8	15/32	3/4
-99	-100	1/2	53/64	7/16	23/32	16 3/4	1/2	51/64	27/64	45/64
-101	-102	31/64	25/32	27/64	11/16	18	15/32	49/64	13/32	21/32
-103	-104	31/64	25/32	27/64	11/16	15	15/32	49/64	13/32	21/32



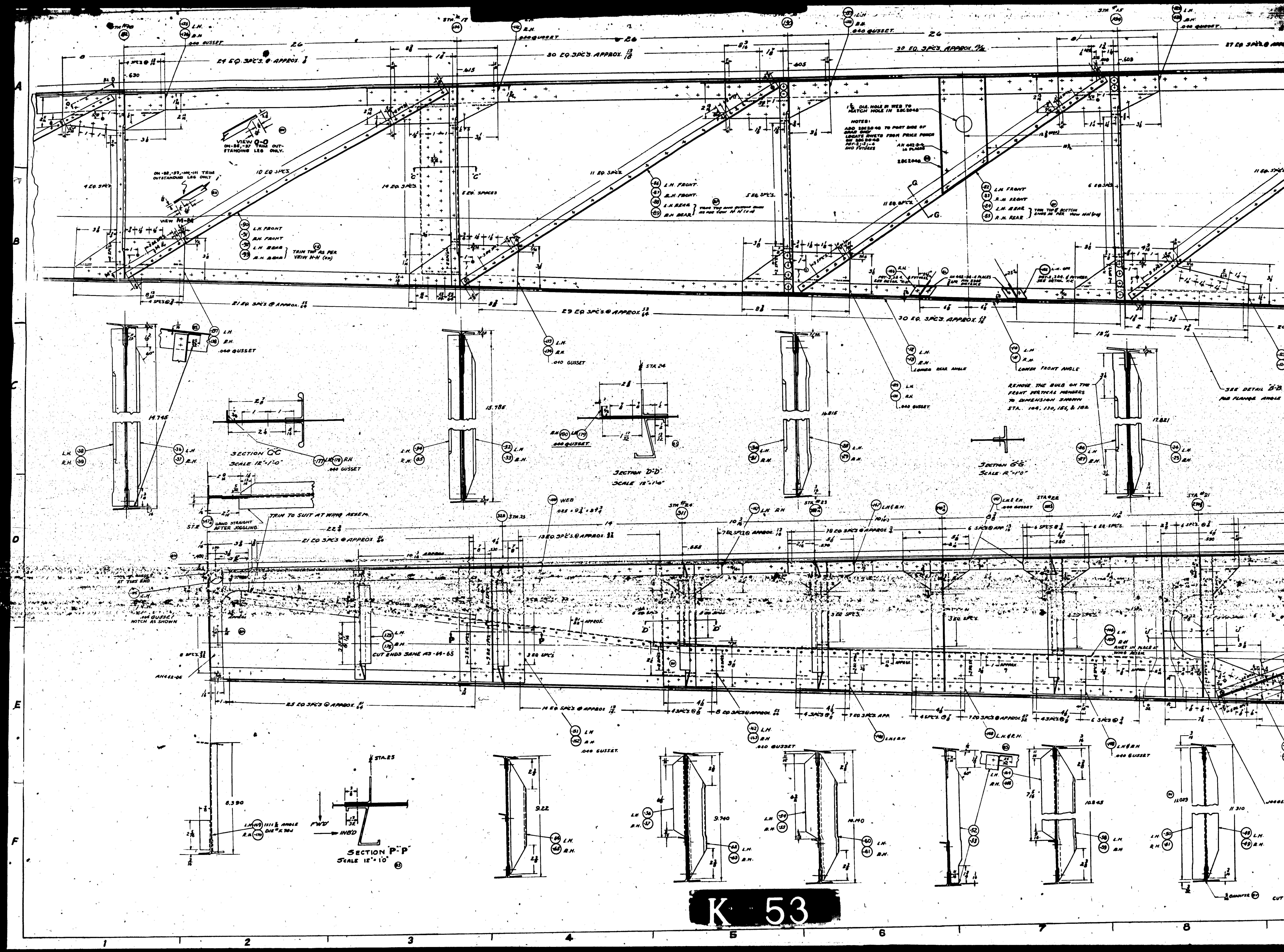
STA. #18
STA. #17
STA. #16
30 EQ. SPACES @ APPROX. 23/32 STG'D.
32 EQ. SPACES @ APPROX. 7/16 STG'D
.045 GUSSET
AN 442 D4 IN ALL 1/2 x 1/2 DIAGONALS
L.H. FRONT
R.H. FRONT
L.H. REAR
R.H. REAR
26 EQ. SPACES @ APPROX. 23/32 STG'D.
34 EQ. SPACES @ APPROX. 41/64 STG'D
DRILL & CTSK 78° x .226 DIA RIVET AC 425-D4 2 REQ.
FILE 3/32 ANGLE AS SHOWN
PLATE .064 x 7/8 x 7 3/4
DETAIL AC-AC SCALE 12"=1'-0"
SECTION DD SCALE 12"=1'-0"
SECTION E-E SCALE 12"=1'-0"
VIEW CC SCALE 12"=1'-0"
REAR ANGLE
FRONT ANGLE
GRIND THIS EDGE STRAIGHT
JOGGLE ANGLE 1/16
FLANGE ON GUSSET
TRIM TO SUIT AT WING ASSEMBLY
FILE CORNER LENGTH OF SPLICE
STA. #26
STA. #25
STA. #24
STA. #23
DETAIL OF FLANGE ANGLE SPLICE BETWEEN STA. 78 & STA. 104 SCALE - 12" = 1'-0"
AN442D6
BUTT FRONT ANGLES
TAPER INBOARD ANGLES TO DIMENSIONS SHOWN
JOGGLE 3/32 OUTBD. REAR ANGLE
NOTE CUT ENDS SAME AS -64
20 EQ. SPC'S @ APPROX. 13/16 STG'D
REAR FACE ONLY LOCATE ℄ RIVET ON ASS OF WING
SECTION HH
SECTION JJ
SHOWING THE LOCATION OF THE HOLES FOR ATTACHING THE FLOAT CONTROL GEAR BOX
OUTBOARD END ARRANGEMENT OF SPAR AT STA. #26
VIEW AD-AD
SECTION F-F SCALE 12"=1'-0"
SECTION L-L SCALE 12"=1'-0"
FWD.
OUTBD.
IF SAME ACCURACY CAN BE OBTAINED, INSTALLATION OF BRACKETS MAY BE MADE AT A LATER STAGE OF CONSTRUCTION. NOTE THAT DIMS. ARE GIVEN FROM REF. LINE ELIMINATING INACCURACY OF VARYING GAUGES OF SKIN ON TOP OF SPAR ℄ THAT SPAR SHOULD BE ADEQUATELY SUPPORTED TO PREVENT SAGGING.
TYPICAL SECTION SHOWING THE LOCATION OF THE FLOAT CONTROL TUBE BRACKET ON THE FOLLOWING STA. 47 3/4, 20, 52, 78, 104, 130, 156 & 182
K 52



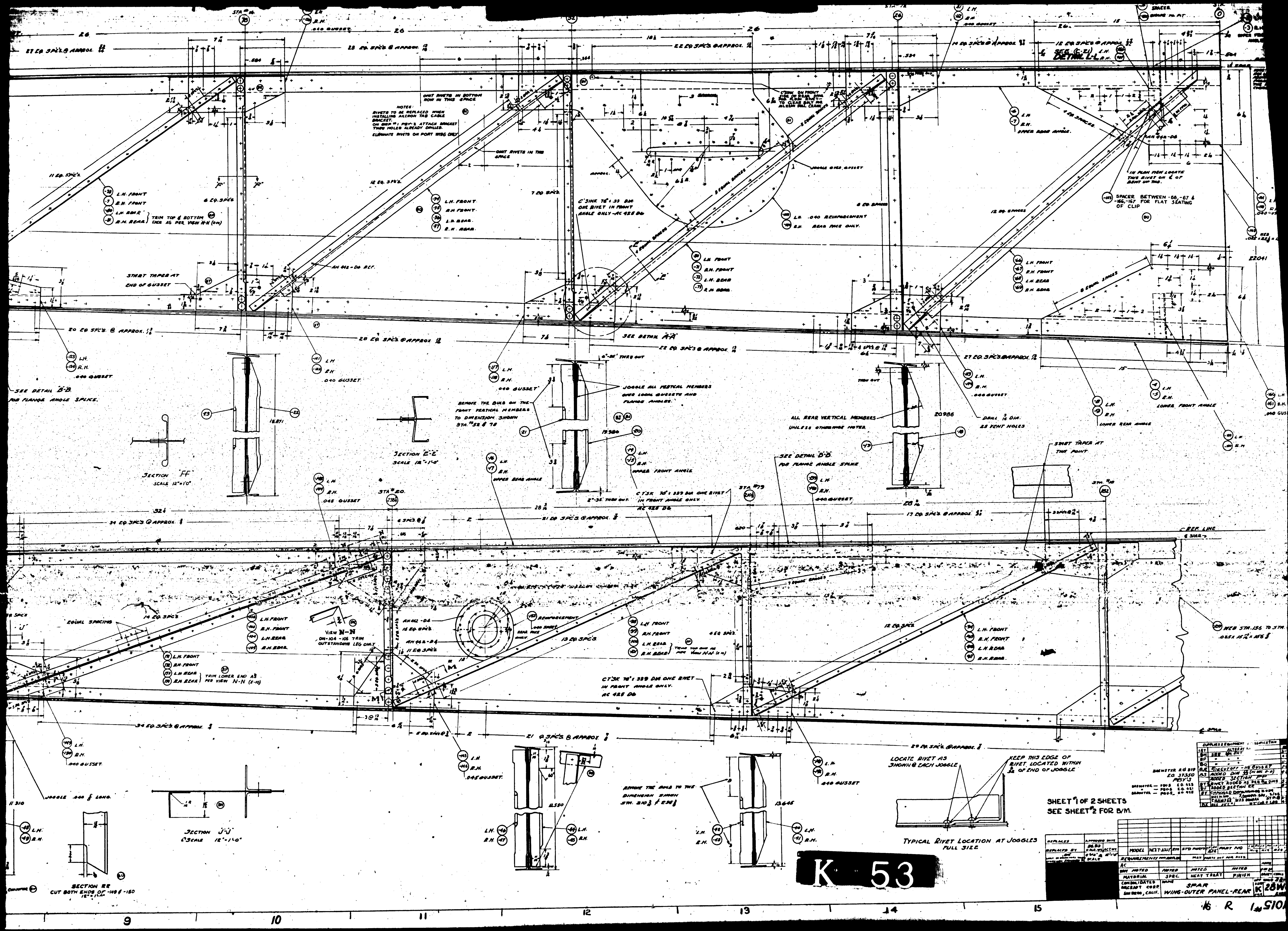
STA. 15
STA. 14
STA. 13
STA. 12
36 EQ. SPACES @ APPROX. 13/32 STG'D
38 EQ. SPACES @ APPROX. 9/16 STG'D
.045 GUSSET
L.H. FRONT
R.H. FRONT
L.H. REAR
R.H. REAR
SEE TYPICAL SECTION FOR RIVET LOCATION @ JOGGLES
CHORD LINE
TAPER ANGLES TO DIM'S SHOWN ON DETAIL OF SPLICE
27 EQ SPACES @ APPROX 39/64 STG'D
38 EQ SPACES @ APPROX 9/16 STG'D
33 EQ SPACES @ APPROX. 19/32 STAGGERED
28 EQ SPC'S @ APPROX 9/16
BOTTOM ANGLE SPLICE SEE DETAIL
REMOVE THE BULB ON THE REAR VERTICAL MEMBERS TO DIMENSION SHOWN STA. 104, 130, 156 & 182
SECTION GG SCALE 12"=1'0"
SECTION B-B SCALE 12"=1'-0"
REMOVE THE BULB ON THE REAR VERTICAL MEMBERS TO DIMENSION SHOWN STA. 26, 52, & 78
TOP ANGLE SPLICE SEE DETAIL OF SPLICE BETWEEN STA 78 & 104
REAR ANGLE
FRONT ANGLE
STA. 22
STA. 21
STA. 20
STA. 19
44 EQ SPC'S @ APPROX 5/8 STAGGERED
JOGGLE .045 - 5/16 LONG
VIEW AC-AC
NOTE: FOR -185 & -186 FOR RIVETS THRU THE OUTSTANDING FLANGE AT THE LOWER END OF THE FRONT DIAGONALS SEE DETAIL A-B
FOR RIVETS THRU THE OUTSTANDING FLANGE AT THE LOWER END OF THE FRONT DIAGONALS 181 & 97 SEE DETAIL A-C
CUT BACK LOWER END VIEW AD-AD
CUT OUTSTANDING LEG SAME AS -49
42 EQ SPC'S @ APPROX. 5/8 STG'D
27 EQ SPC'S @ APPROX 39/64 STG'D
31 EQ SPC'S @ APPROX. 25/32 STAGGERED
NOTE: SEE DETAIL A
REAR FACE ONLY LOCATE RIVET ON ASS OF WING
OMIT THIS RIVET IN THE OUTSTANDING FLANGE OF THE FRONT DIAGONAL AT BEAM ASSEM. THIS RIVET TO BE INSTALLED AT ELECTRICAL CONDUIT INSTALLATION.
DETAIL A-B
SECTION K-K SCALE 12"=1'-0" STA. 270 7/8
DETAIL A-C
.045 GUSSET JOGGLE OVER FLANGE ANGLES
REMOVE THE BULB ON THE REAR VERTICAL MEMBERS TO DIMENSION SHOWN STA. 210 7/16 & 238 5/8
LOCATE RIVET AS SHOWN @ EACH JOGGLE
TYPICAL RIVET L
28W020 DETAIL C REF. TO BE INSTALLED AT WING ASSEMBLY.
CHAMFER
TRIM BOTH ENDS -181, -182
VIEW AD-AD
SECTION A-A SCALE 12"=1'-0"
K 52

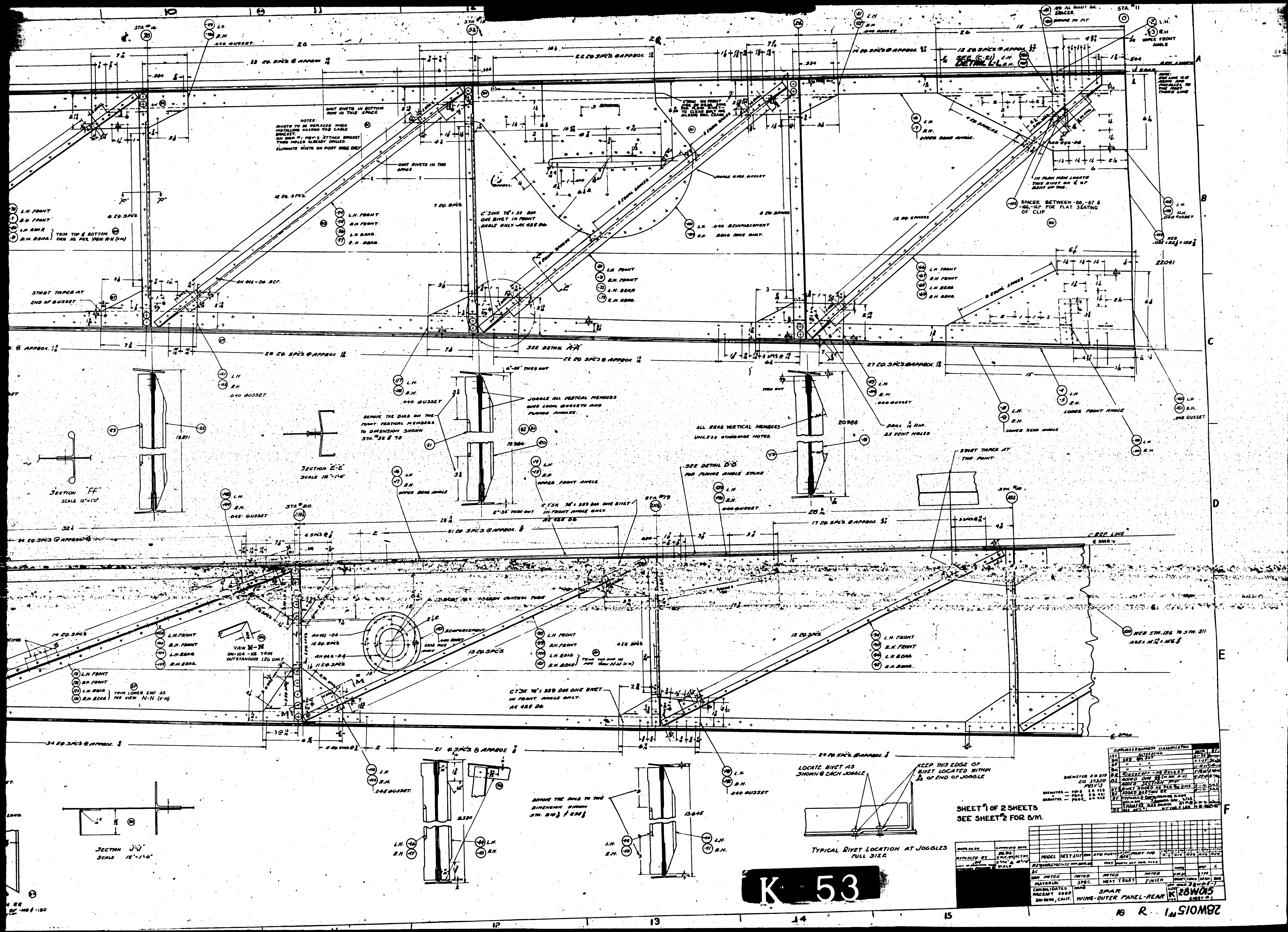


SIZE OF WEB MEMBERS
NOTE: THE REF. LINE IS 13 7/8 ABOVE, AND PARALLEL TO THE ROOT CHORD LINE.
SEE TYPICAL SECTION FOR RIVET LOCATION @ JOGGLES
UPPER REAR ANGLE
UPPER FRONT ANGLE
LOWER REAR ANGLE
LOWER FRONT ANGLE
CHORD LINE (REF.)
.045 GUSSET
REMOVE THE BULB ON THE REAR VERTICAL MEMBERS TO DIMENSION SHOWN STA. # 28, 52, & 76
TOP ANGLE SPLICE SEE DETAIL OF SPLICE BETWEEN STA 78 & 104
FOR RIVETS THRU THE OUTSTANDING FLANGE AT THE LOWER END OF THE FRONT DIAGONALS 181 & 97 SEE DETAIL A-C
NOTE: SEE DETAIL A-D FOR 6008601 ASSY. (ZONE 3-C)
REMOVE THE BULB ON THE REAR VERTICAL MEMBERS TO DIMENSION SHOWN STA. # 210 & 238
LOCATE RIVET AS SHOWN @ EACH JOGGLE
KEEP THE EDGE OF RIVET LOCATED WITHIN OF END OF JOGGLE.
TYPICAL RIVET LOCATION AT JOGGLES FULL SIZE
MATERIAL: 24 ST. SPEC. # 57A10 CONDITION "T"
DETAIL A-C
VIEW AD-AD
SECTION A-A SCALE 12"=1'-0"
TRIM BOTH ENDS -181, -182
CONSOLIDATED AIRCRAFT CORP SAN DIEGO, CALIF.
SPAR - WING - OUTBOARD PANEL-FRONT
28W012
K 52



VIEW M-M
VIEW Q-Q
SECTION 'C-C'
SCALE 12"=1'-0"
SECTION 'D-D'
SCALE 12"=1'-0"
SECTION 'G-G'
SECTION 'P-P'
SCALE 12"=1'-0"
TRIM TO SUIT AT WING ASSEM.
REMOVE THE BULB ON THE FRONT VERTICAL MEMBERS TO DIMENSION SHOWN
STA. 104, 130, 156, & 182.
CUT ENDS SAME AS -64-65
.040 GUSSET
K 53

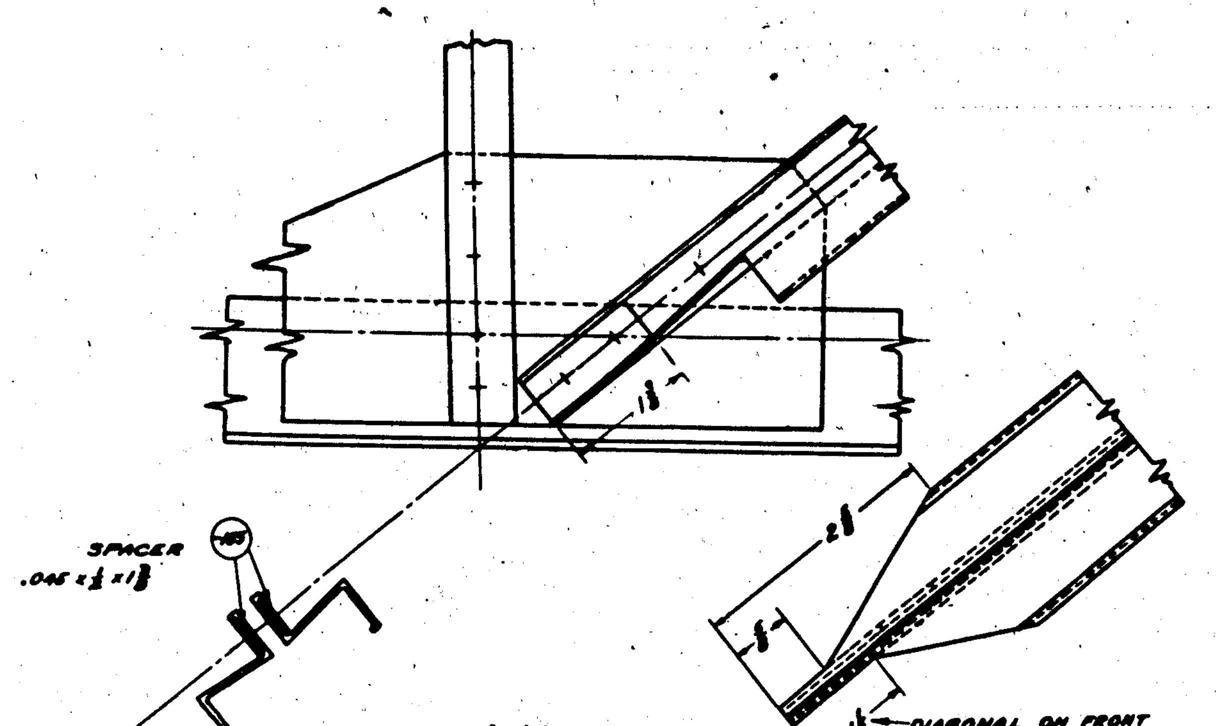

SECTION "F-F"
SCALE 12"=1'-0"
SECTION "E-E"
SCALE 12"=1'-0"
SECTION "J-J"
SCALE 12"=1'-0"
SECTION RR
VIEW N-N
SEE DETAIL "A-A"
SEE DETAIL "B-B" FOR FLANGE ANGLE SPLICE.
SEE DETAIL "D-D" FOR FLANGE ANGLE SPLICE
ALL REAR VERTICAL MEMBERS UNLESS OTHERWISE NOTED.
START TAPER AT END OF GUSSET
LOCATE RIVET AS SHOWN @ EACH JOGGLE
KEEP THIS EDGE OF RIVET LOCATED WITHIN 1/32 OF END OF JOGGLE
TYPICAL RIVET LOCATION AT JOGGLES FULL SIZE
SHEET #1 OF 2 SHEETS
SEE SHEET #2 FOR B/M.
K 53
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
SPAR
WING-OUTER PANEL-REAR
9
10
11
12
13
14
15



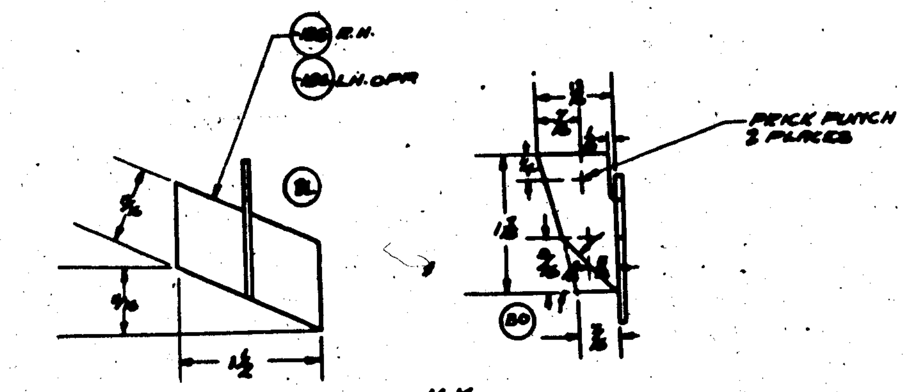
SECTION "FF"
SCALE 12"=1'0"
SECTION "E-E"
SCALE 12"=1'0"
SECTION "J-J"
SCALE 12"=1'0"
VIEW N-N
SEE DETAIL "AA"
SEE DETAIL "D-D" FOR FLANGE ANGLE SPLICE
ALL REAR VERTICAL MEMBERS UNLESS OTHERWISE NOTED
JOGGLE ALL VERTICAL MEMBERS OVER LOCAL GUSSETS AND FLANGE ANGLES
SPACER BETWEEN -66, -67 & -166, -167 FOR FLAT SEATING OF CLIP
START TAPER AT END OF GUSSET
LOCATE RIVET AS SHOWN @ EACH JOGGLE
KEEP THIS EDGE OF RIVET LOCATED WITHIN 1/8 OF END OF JOGGLE
TYPICAL RIVET LOCATION AT JOGGLES FULL SIZE
SHEET 1 OF 2 SHEETS
SEE SHEET 2 FOR B/M.
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
SPAR
WING-OUTER PANEL-REAR
28W015
K 53

17 18 19 20 21 22 23

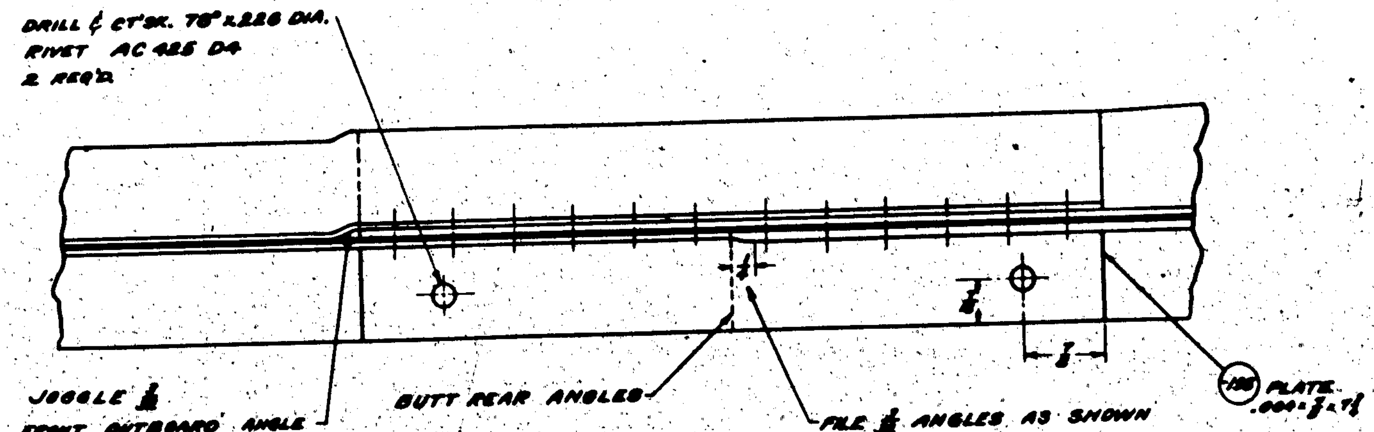
LET	ALTERATION	DATE	BY
AZ	TRACED UP TO DATE	[illegible]	[illegible]
BA	REMOVED [illegible] NOTE [illegible]	[illegible]	[illegible]
BB	[illegible] NOTE AT STA [illegible]	[illegible]	[illegible]
BD	ADDED CHANNEL [illegible]	[illegible]	[illegible]
BE	DASH NO. OF [illegible] WAS K [illegible] NOW [illegible]	[illegible]	[illegible]
BF	ADDED -185 & -186 & DETAIL FOR PBY-2 & 3 DETAIL K-K	[illegible]	NELSON
BG	ADDED DETAIL OF -186 & -187 DETAIL L-L	5-5-37	NELSON
BH	ADDED [illegible] LOCATION [illegible] NOTE TO -181-182, CORRECTED DETAIL OF -185 & -187	[illegible]	[illegible]
BI	ADDED NOTE AT -185 REGARDING C'SINK FOR FLUSH RIVET ON FRONT FACE		
BJ	AT CL. B.236 WAS 15.934		
BK	ADDED SECTIONS "H-H" "B-B" AT STATIONS 182 & 234	2-1-38	[illegible]
BL	REPLACED [illegible] RIVETS [illegible] ON -185 & -186; ADDED NOTE ON EDGE DISTANCE [illegible] WAS [illegible]	[illegible]	[illegible]
BM	ADDED PBY-3 & PBY-4 REQ ON 10 & 11; [illegible] WAS [illegible] ON -52, [illegible] WAS [illegible] 12 [illegible]	2-1-38	[illegible]
BN	IN SECT. J-J [illegible] WAS 1	[illegible]	[illegible]
BO	TRIMMED BACK LOW. END -185, -186 45°	[illegible]	[illegible]
BP	ADDED TRIM NOTE -78, -79, -80, -81, -84, -85, -88, -89, -92, -93, -100, -101	[illegible]	[illegible]
BQ	CHANGED DIAGONAL MEMB. -74, -75, -76, -77 FROM ½ x ½ x 1/16 ANGLE TO K-3048 ZEE	[illegible]	[illegible]
BR	ADDED OMITTED RIVET IN -119, -120	[illegible]	MACKINSON
BS	[illegible] WAS [illegible] (ANT. 1)	[illegible]	[illegible]
BT	REM. -188 AT STA. 14 (BN WAS [illegible])	"	"
BU	ADDED -185 (L SIDE) AT [illegible]	"	"
BY	FLUSHED RIVET IN UPPER FLANGE AT STA #13 FOR SPIDER ATTACHMENT.	"	"
BW	-302-11 STOCK LENGTH ENED [illegible]	[illegible]	[illegible]

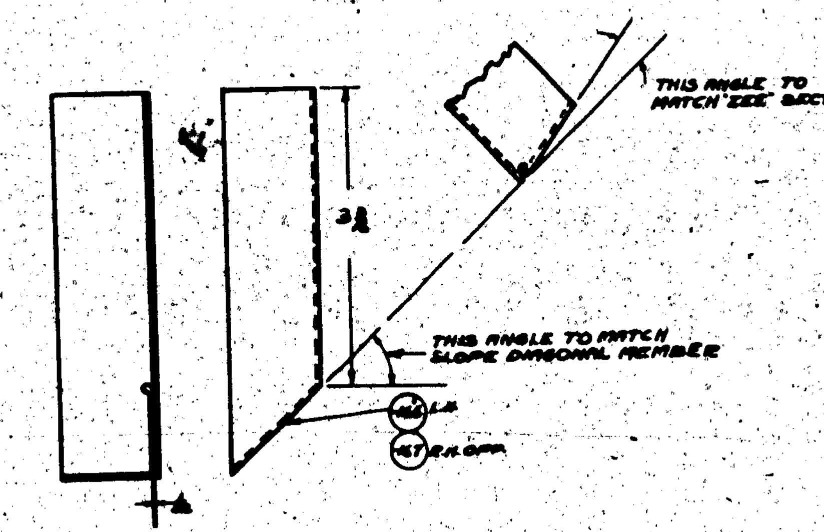


DETAIL "A-A"
SCALE 12"=1'-0"

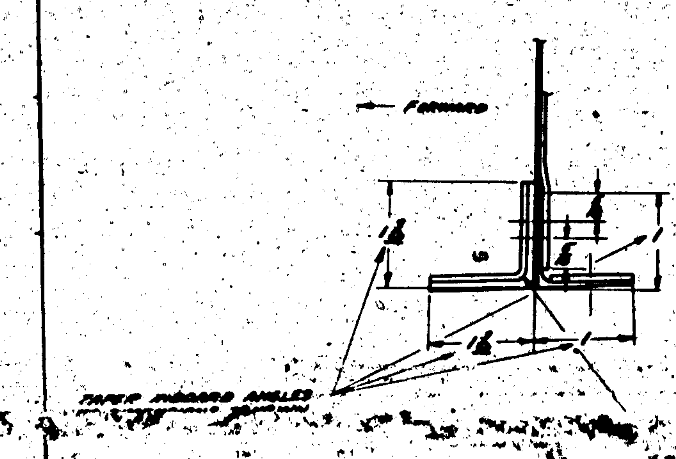


DETAIL-K-K
[illegible] EXTRUDED "ZEE" 24ST
ALCOA DIE [illegible] SPEC. 46A9
COND. T. FINISH - Z-P-26P
PORT SIDE ONLY PBY-2 & 3 & 4 & FUTURES.
SCALE 12"=1'-0"

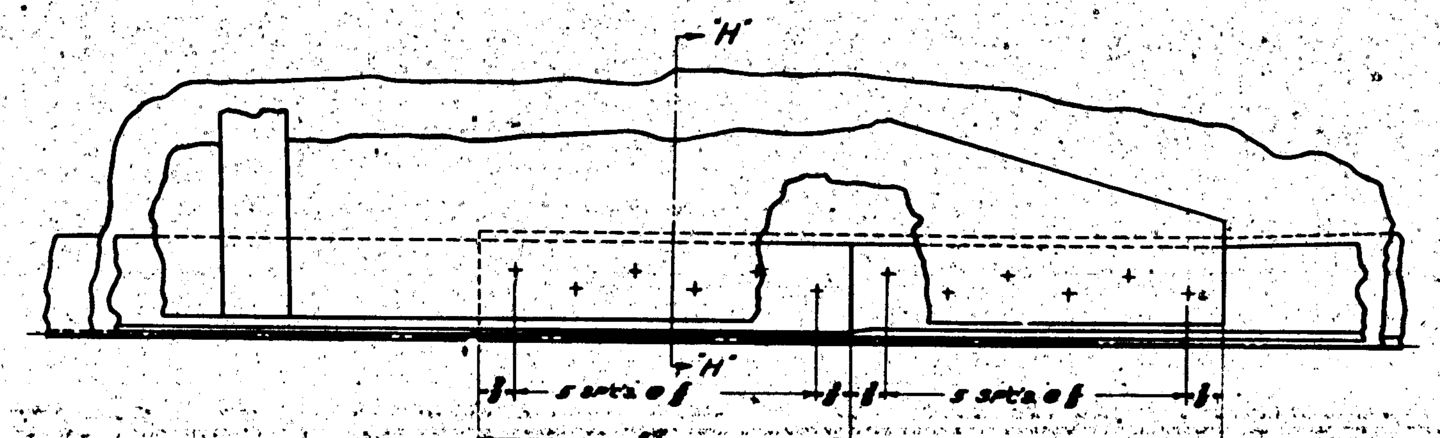




DETAIL L-L (A-15)
SCALE 12"=1'-0"



SECTION "H-H"



DETAIL "B-B"
SCALE 12"=1'-0"

SIZE OF WEB MEMBERS (BM)

DASH NO.	SECTION	MATERIAL	CUT'G. LGTH.
-2	1½ x 1½ x 3/32	K11637	17'-4¾"
3	1½ x 1½ x 3/32	K11637	17'-4¾"
4	1½ x 1½ x 3/32	K11637	8'-8[illegible]
5	1½ x 1½ x 3/32	K11637	8'-[illegible]
6	1 x 1½ x 3/32	K11638	17'-0[illegible]
7	1 x 1½ x 3/32	K11638	17'-0[illegible]
8	1 x 1½ x 3/32	K11638	8'-2[illegible]
9	1 x 1½ x 3/32	K11638	8'-[illegible]
10	1 x 1 x 1/16	K-78-J	21'-[illegible]
11	1 x 1 x 1/16	K-78-J	21'-[illegible]
12	1 x 1 x 1/16	K-78-J	20'-10"
13	1 x 1 x 1/16	K-78-J	20'-10"
14	1 x 1 x 1/16	K-78-J	18'-3"
15	1 x 1 x 1/16	K-78-J	18'-3"
16	1 x 1 x 1/16	K-78-J	11'-11¾"
17	1 x 1 x 1/16	K-78-J	11'-11¾"
18	1 x 1 x 3/32	K-78-F	[illegible]
19	1 x 1 x 3/32	K-78-F	[illegible]
20	[illegible]	K-1298	[illegible]
21	[illegible]	K-1298	[illegible]
22	[illegible]	K-1298	[illegible]
23	[illegible]	K-1298	17[illegible]
24	[illegible]	K-1298	17[illegible]
25	[illegible]	K-1298	17[illegible]
26	[illegible]	K-1298	17[illegible]
27	[illegible]	K-1298	16[illegible]
28	[illegible]	K-1298	16[illegible]
29	[illegible]	K-1298	16[illegible]
30	[illegible]	K-1298	16[illegible]
31	[illegible]	K-1298	16[illegible]
32	[illegible]	K-1298	16[illegible]
33	[illegible]	K-1298	16[illegible]
34	[illegible]	K-1298	15[illegible]
35	[illegible]	K-1298	15[illegible]
36	[illegible]	K-1298	15[illegible]
37	[illegible]	K-1298	14[illegible]
38	[illegible]	K-1298	14[illegible]
39	[illegible]	K-1298	14[illegible]
40	[illegible]	K-1298	13[illegible]
41	[illegible]	K-1298	13[illegible]
-42	[illegible]	K-128[illegible]	13[illegible]
43	[illegible]	K-1298	13[illegible]
44	[illegible]	K-2009	14[illegible]
45	[illegible]	K-2009	14[illegible]
46	[illegible]	K-2009	12[illegible]
47	[illegible]	K-2009	12[illegible]
48	1 x 1 x 1/16	K-78-J	11[illegible]
49	1 x 1 x 1/16	K-78-J	11[illegible]
50	1 x 1 x 1/16	K-78-J	11[illegible]
51	1 x 1 x 1/16	K-78-J	11[illegible]
52	1 x 1 x 3/32	K-78-F	12[illegible]
53	1 x 1 x 3/32	K-78-F	12[illegible]
54	1 x 1 x 1/16	K-78-J	6[illegible]
55	1 x 1 x 1/16	K-78-J	6[illegible]
56	1 x 1 x 1/16	K-78-J	6[illegible]
57	1 x 1 x 1/16	K-78-J	10[illegible]
58	[illegible]	K-8660	10[illegible]
59	[illegible]	K-8660	[illegible]
60	[illegible]	K-8660	[illegible]
61	[illegible]	K-8660	[illegible]
62	[illegible]	K-8660	[illegible]
63	[illegible]	K-8660	[illegible]
64	[illegible]	K-8660	[illegible]
65	[illegible]	K-8660	[illegible]
66	[illegible]	K-3048	21[illegible]
67	[illegible]	K-3048	21[illegible]
68	[illegible]	K-3048	21[illegible]
69	[illegible]	K-3048	20[illegible]
70	[illegible]	K-3048	20[illegible]
71	[illegible]	K-3048	20[illegible]
72	[illegible]	K-3048	20[illegible]
73	[illegible]	K-3048	20[illegible]
74	[illegible]	K-3048	20[illegible]
75	[illegible]	K-3048	20[illegible]
76	[illegible]	K-3048	20[illegible]
77	[illegible]	K-3048	20[illegible]
78	½ x ½ x 1/16	K-78-P	20[illegible]
79	½ x ½ x 1/16	K-78-P	20[illegible]
80	½ x ½ x 1/16	K-78-P	20[illegible]
81	½ x ½ x 1/16	K-78-P	20[illegible]
82	½ x ½ x 1/16	K-78-P	22[illegible]
83	½ x ½ x 1/16	K-78-P	22[illegible]
84	½ x ½ x 1/16	K-78-P	22[illegible]
85	½ x ½ x 1/16	K-78-P	22[illegible]
86	½ x ½ x 1/16	K-78-P	22[illegible]
87	½ x ½ x 1/16	K-78-P	22[illegible]
88	½ x ½ x 1/16	K-78-P	22[illegible]
89	½ x ½ x 1/16	K-78-P	22[illegible]
90	½ x ½ x 1/16	K-78-P	22[illegible]
91	½ x ½ x 1/16	K-78-P	22[illegible]
92	½ x ½ x 1/16	K-78-P	22[illegible]
93	½ x ½ x 1/16	K-78-P	20[illegible]
94	½ x ½ x 1/16	K-78-P	20[illegible]
95	½ x ½ x 1/16	K-78-P	20[illegible]
96	½ x ½ x 1/16	K-78-P	20[illegible]
97	½ x ½ x 1/16	K-78-P	22[illegible]
98	½ x ½ x 1/16	K-78-P	22[illegible]
99	½ x ½ x 1/16	K-78-P	22[illegible]
100	½ x ½ x 1/16	K-78-P	22[illegible]
101	½ x ½ x 1/16	K-78-P	22[illegible]
102	½ x ½ x 1/16	K-78-P	22[illegible]
103	½ x ½ x 1/16	K-78-P	22[illegible]
104	½ x ½ x 1/16	K-78-P	22[illegible]
105	½ x ½ x 1/16	K-78-P	22[illegible]
106	[illegible]	K6240	6'-5"
107	[illegible]	K6240	6'-5"
164	1 x 1 x 1/16	K-78-J	7[illegible]
165	1 x 1 x 1/16	K-78-J	7[illegible]
166	1 x 1 x 1/16	K-78-J	4[illegible]
167	1 x 1 x 1/16	K-78-J	[illegible]
168	1 x 1 x 1/16	K-78-J	[illegible]
169	1 x 1 x 1/16	K-78-J	[illegible]
171	[illegible]	K-5801	21[illegible]
172	[illegible]	K-5801	21[illegible]
173	[illegible]	K-5801	21[illegible]
174	[illegible]	K-5801	21[illegible]
175	[illegible]	K-8660	8[illegible]
176	[illegible]	K-8660	8[illegible]

NOTE:
SEE TABLE FOR SIZE OF WEB MEMBERS
THE ℄ OF THE SPAR IS ON THE ℄ OF THE WEB.
EDGE DISTANCE IS MINIMUM & MUST BE HELD ON ALL RIVETS.
ALL LOCAL GUSSETS ARE JOGGLED OVER THE REAR FLANGE ANGLES.
THE RIVETS ATTACHING ½ & ⅜ ANGLES TO SPAR ARE AN442-D4 ALL OTHER RIVETS ARE AN442-D6 EXCEPT AS NOTED.
(BL) FINISH "Z-P-26P. ALL PARTS (Z-P-26P -PBY-1 ONLY)
L.H. SHOWN R.H. OPPOSITE
VIEW LOOKING FORWARD.
✱ INDICATES ⅛ DIA. RIVETS.
+ INDICATES 3/16 DIA. RIVETS.
○ INDICATES ¼ DIA. RIVETS.
⊗ INDICATES 5/32 DIA. RIVETS.

MATERIAL:
-177, -178, -179, -180, -149, -150 ARE ALUM. ALLOY SHEET (24S)
SPEC. 47A10 CONDITION A (ALLOY 24A)

SHEET #2 OF 2 SHEETS

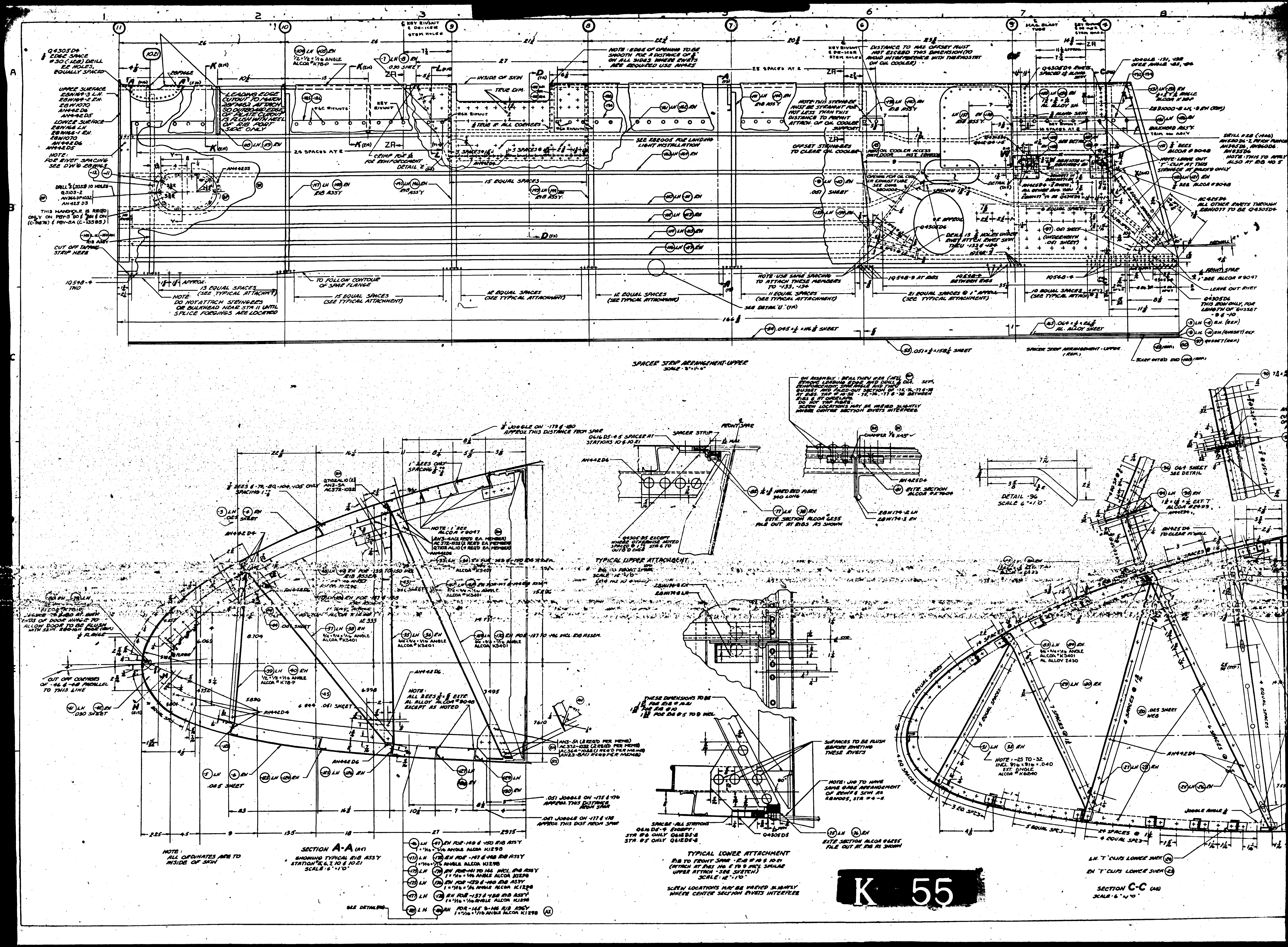
FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
GP	GREEN PRIMER
C	[illegible] PLATE

ALL AL. ALLOY SHEET 24ST SPEC. 47A10 (COND. T) ALLOY 24-T EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS SPEC. 46A9 (COND. T) ALLOY 24-T EXCEPT AS NOTED
HEAT TREAT ALL COND. A MATERIAL PER SPEC. SR53
RIVETS AL. ALLOY EXCEPT AS NOTED

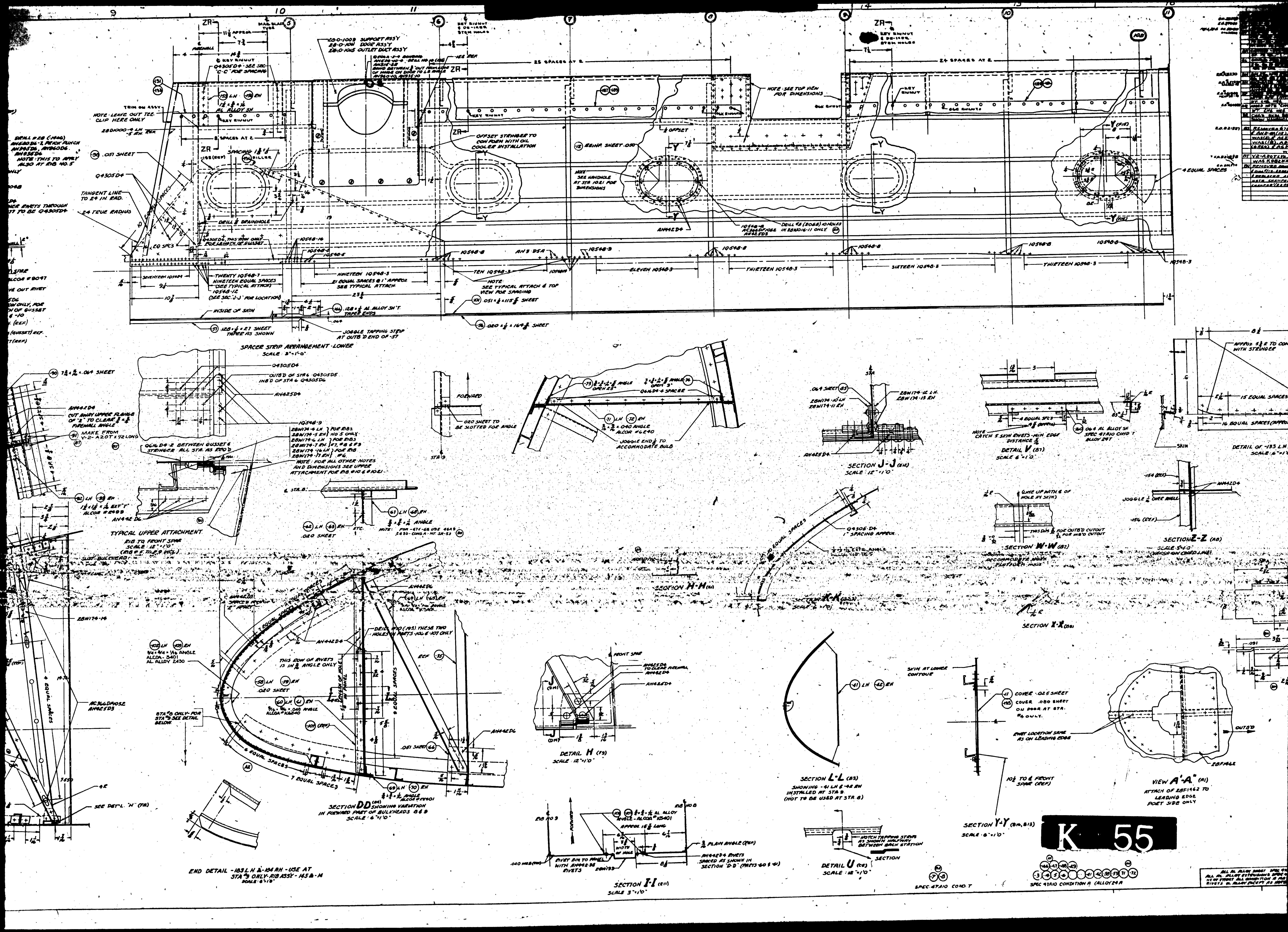
TOLERANCE ± .015
SCALE 6" & 12"=1'-0"
NOTED NOTED NOTED
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
SPAR
WING-OUTER PANEL-REAR
J 28W015 SHT. 2 OF 2
OPP. HAND 28W015-1

R 28W015

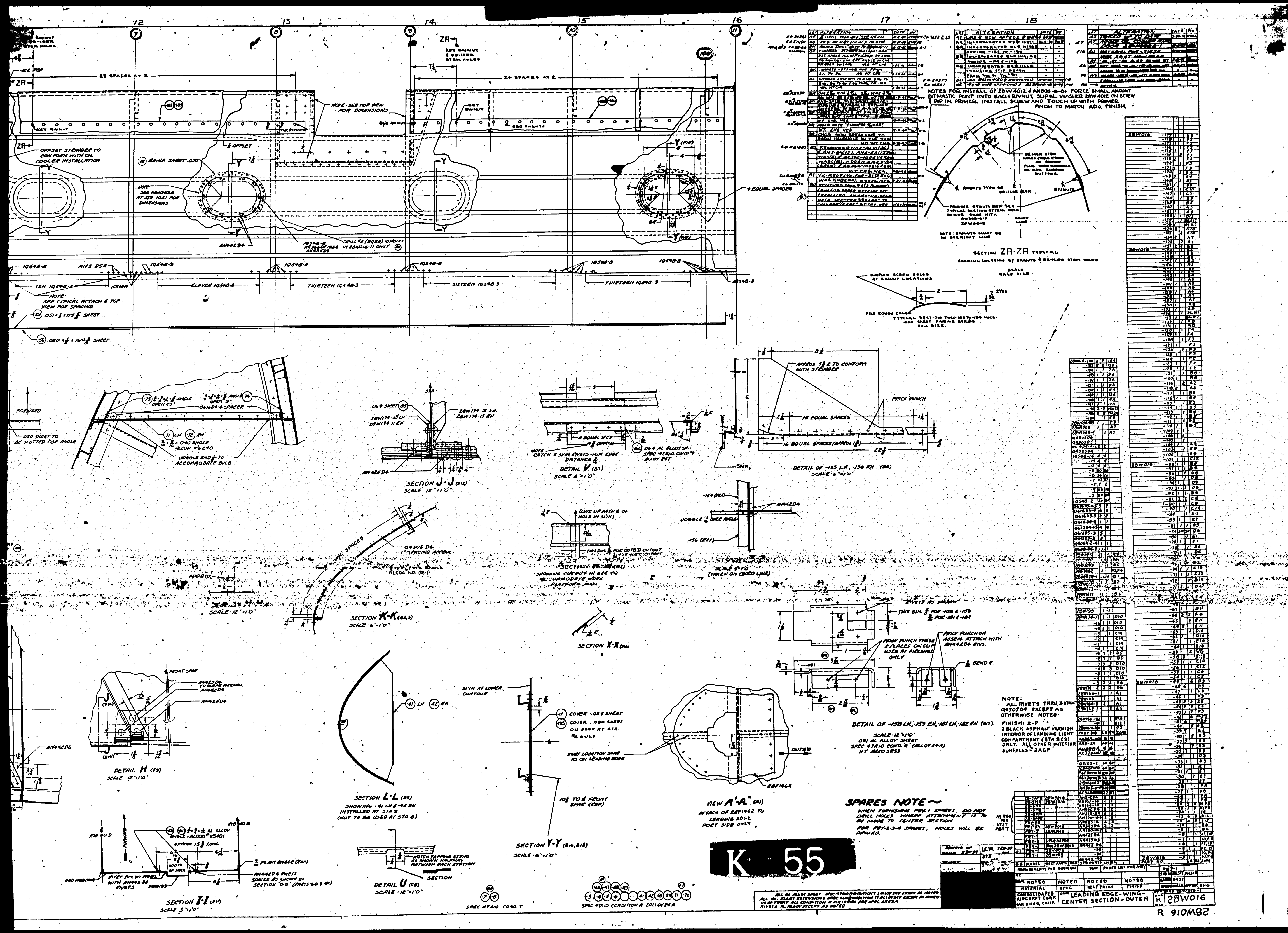
K 54



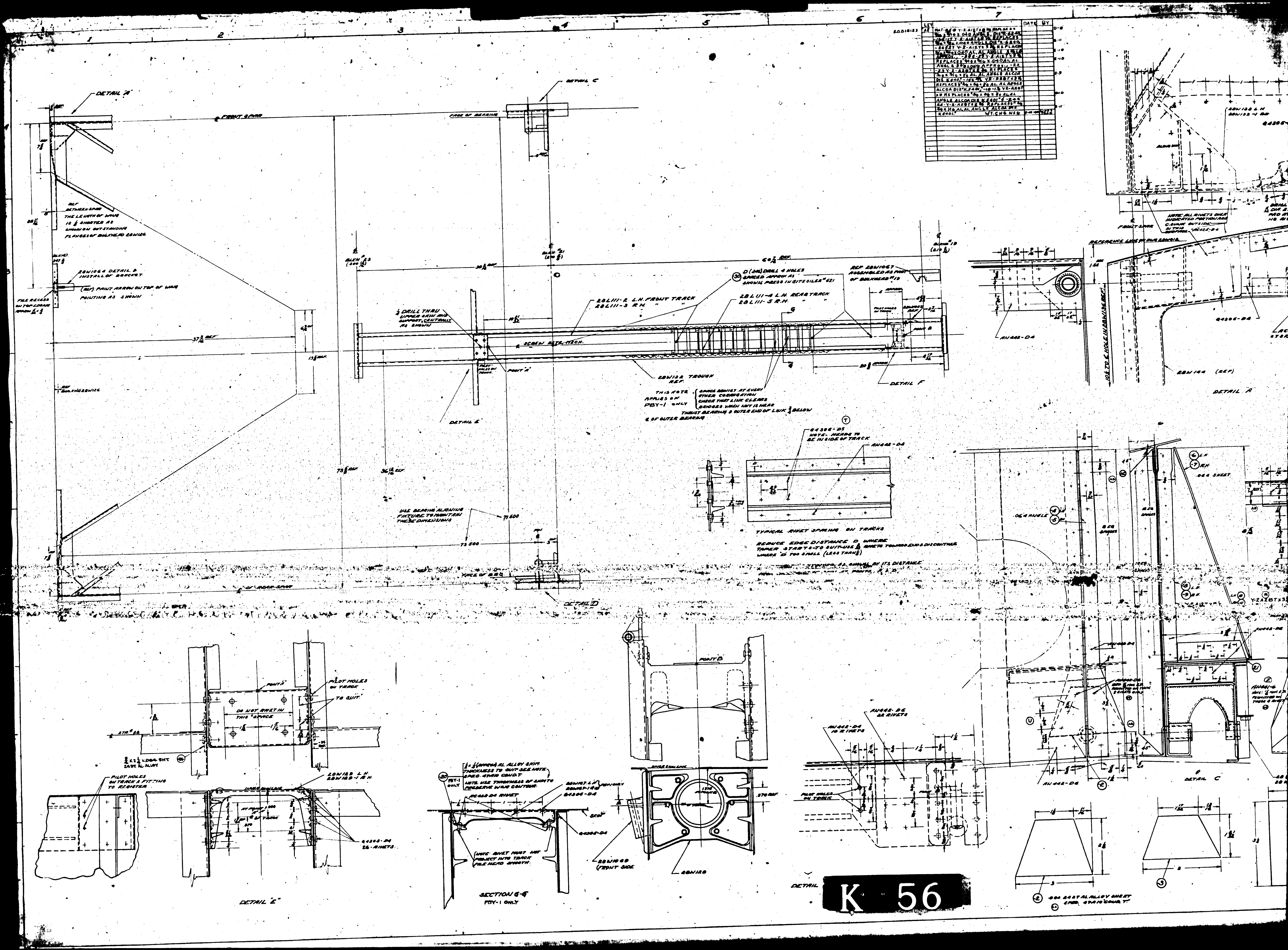
SPACER STRIP ARRANGEMENT-UPPER
TYPICAL UPPER ATTACHMENT
SECTION A-A
SHOWING TYPICAL RIB ASS'Y STATION 6, 7, 10 & 10 21
SCALE: 6" = 1'0"
NOTE: ALL ORDINATES ARE TO INSIDE OF SKIN
TYPICAL LOWER ATTACHMENT
SECTION C-C
DETAIL -96
SCALE 6" = 1'0"
K 55



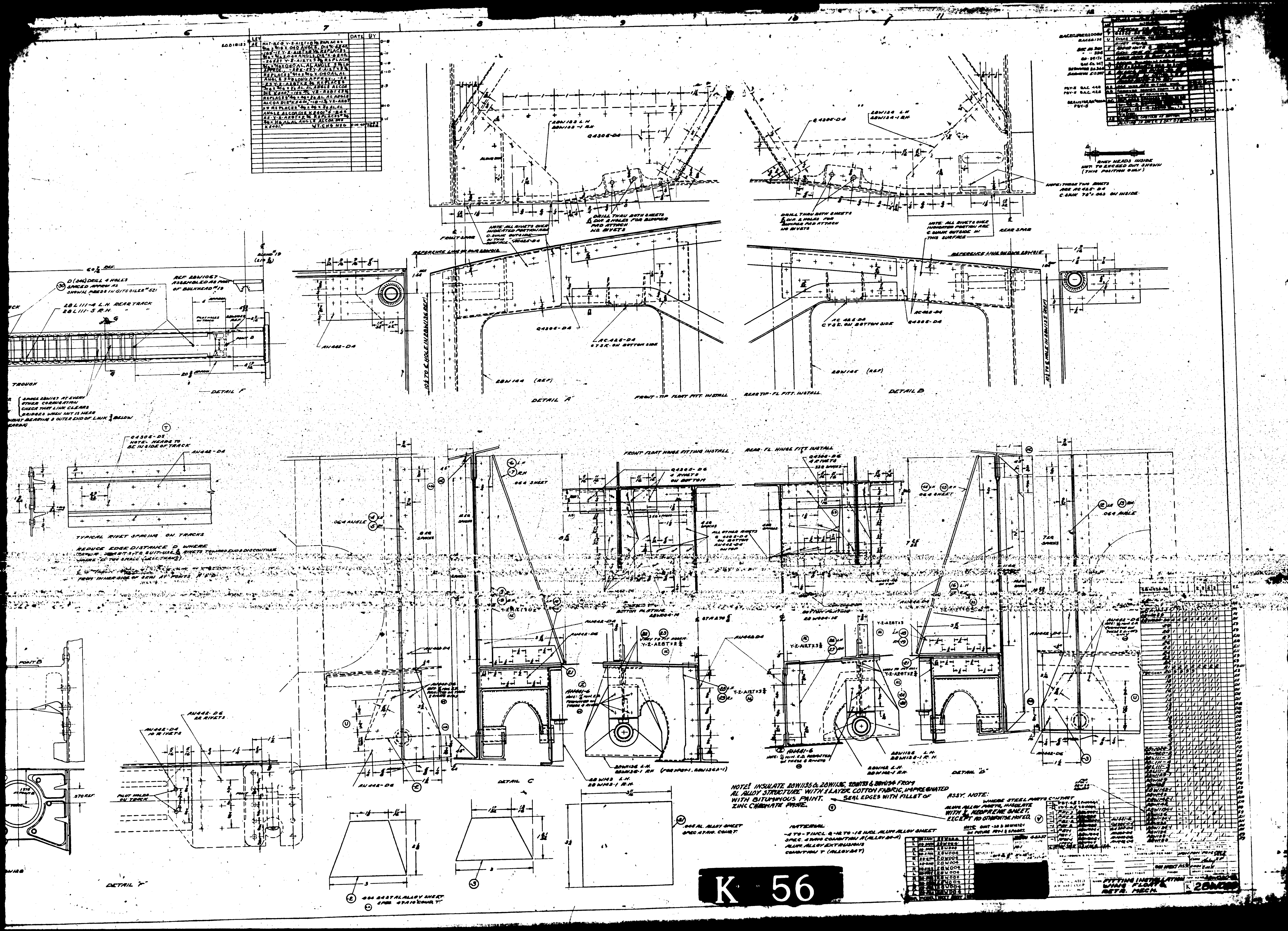
SPACER STRIP ARRANGEMENT - LOWER
SCALE: 3"=1'-0"
TYPICAL UPPER ATTACHMENT
RIB TO FRONT SPAR
SCALE: 12"=1'-0"
SECTION J-J
SCALE: 12"=1'-0"
DETAIL V (B7)
SCALE 6"=1'0"
SECTION W-W (B7)
SECTION Z-Z (A8)
SECTION H-H
SECTION K-K
SECTION X-X (B6)
DETAIL OF -133 LH
SECTION DD SHOWING VARIATION
IN FORWARD PART OF BULKHEADS 8 & 9
SCALE: 6"=1'0"
DETAIL H (F9)
SCALE 12"=1'0"
SECTION L-L (B3)
SHOWING -41 LH & -42 RH
INSTALLED AT STA 9.
(NOT TO BE USED AT STA 8)
SECTION Y-Y
SCALE 6"=1'0"
VIEW "A"-"A" (A1)
ATTACH OF 28F1462 TO
LEADING EDGE
PORT SIDE ONLY
END DETAIL -183 LH & -184 RH - USE AT
STA 9 ONLY - RIB ASSY - 145 & -14
SCALE 6"=1'0"
SECTION I-I (E11)
SCALE 3"=1'0"
DETAIL U (C6)
SCALE 12"=1'0"
SPEC 47A10 COND. T
SPEC 47A10 CONDITION A (ALLOY 24 A
K 55



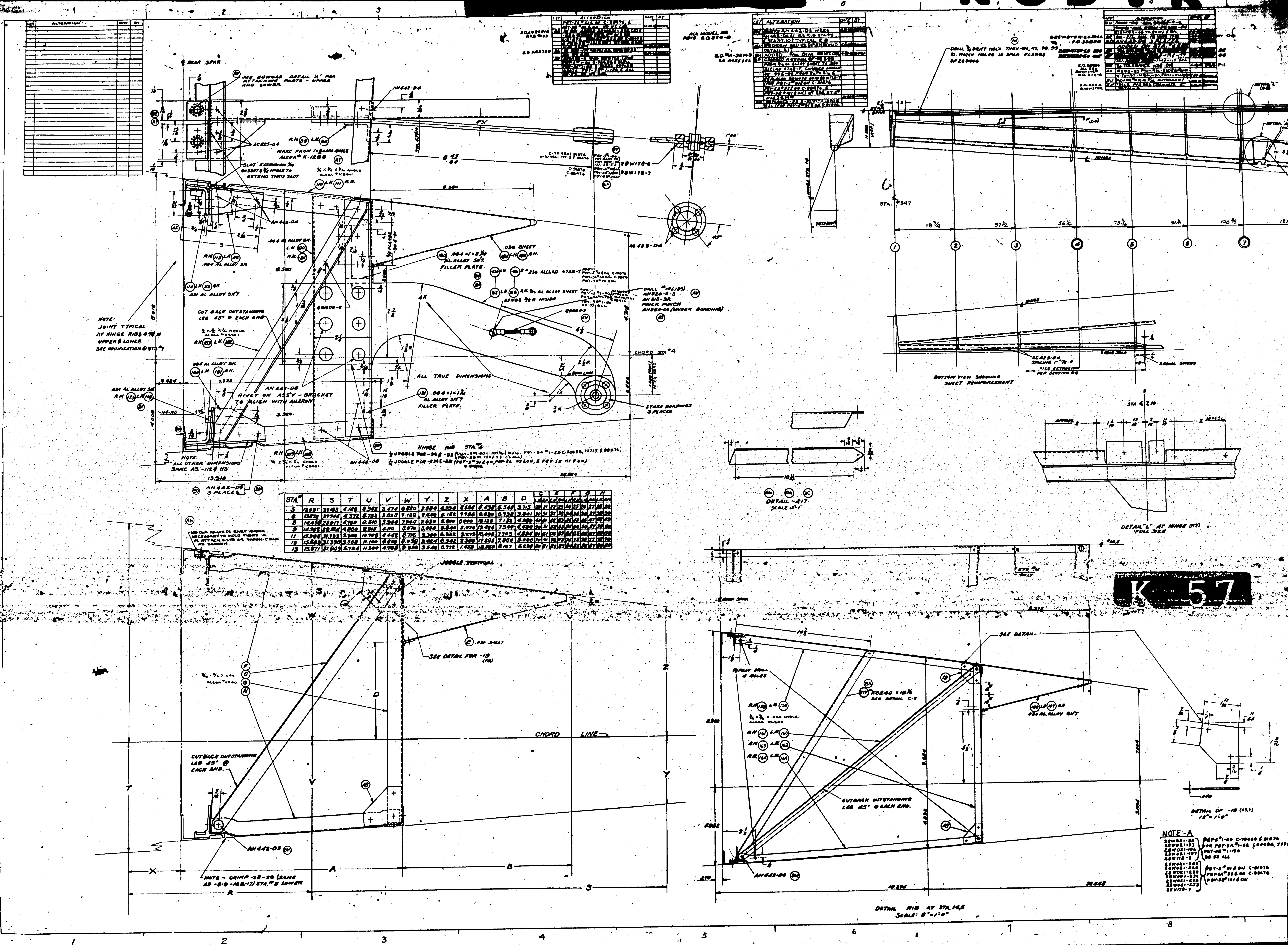
NOTES FOR INSTALL OF 28W4012 & AN505-6-8 FORCE SMALL AMOUNT DITMASTIC PAINT INTO EACH RIVNUT, SLIP AL WASHER 28W4012 ON SCREW & DIP IN PRIMER. INSTALL SCREW AND TOUCH UP WITH PRIMER. FINISH TO MATCH ADJ. FINISH.
SECTION ZA-ZA TYPICAL
OFFSET STRINGER TO CONFORM WITH OIL COOLER INSTALLATION
NOTE: SEE TOP VIEW FOR DIMENSIONS
4 EQUAL SPACES
SECTION J-J
DETAIL V
DETAIL OF -133 LH, -134 RH
SECTION K-K
SECTION X-X
DETAIL H
SECTION L-L
SECTION Y-Y
VIEW "A"-"A"
ATTACH OF 28P1462 TO LEADING EDGE PORT SIDE ONLY
DETAIL OF -158 LH, -159 RH, -181 LH, -182 RH
SCALE 12"=1'0"
.081 AL ALLOY SHEET SPEC 47A10 COND. "A" (ALLOY 24-A) HT. AERO 5855
SPARES NOTE ~
WHEN FURNISHING PBY-1 SPARES, DO NOT DRILL HOLES WHERE ATTACHMENT IS TO BE MADE TO CENTER SECTION.
FOR PBY-2-3-4 SPARES, HOLES WILL BE DRILLED.
NOTE:
ALL RIVETS THRU SKIN- Q430SD4 EXCEPT AS OTHERWISE NOTED
FINISH: Z-P
2 BLACK ASPHALT VARNISH INTERIOR OF LANDING LIGHT COMPARTMENT (STA. 8&9) ONLY. ALL OTHER INTERIOR SURFACES - 2AGP
SECTION I-I
DETAIL U
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
LEADING EDGE-WING-CENTER SECTION-OUTER
28W016
K 55



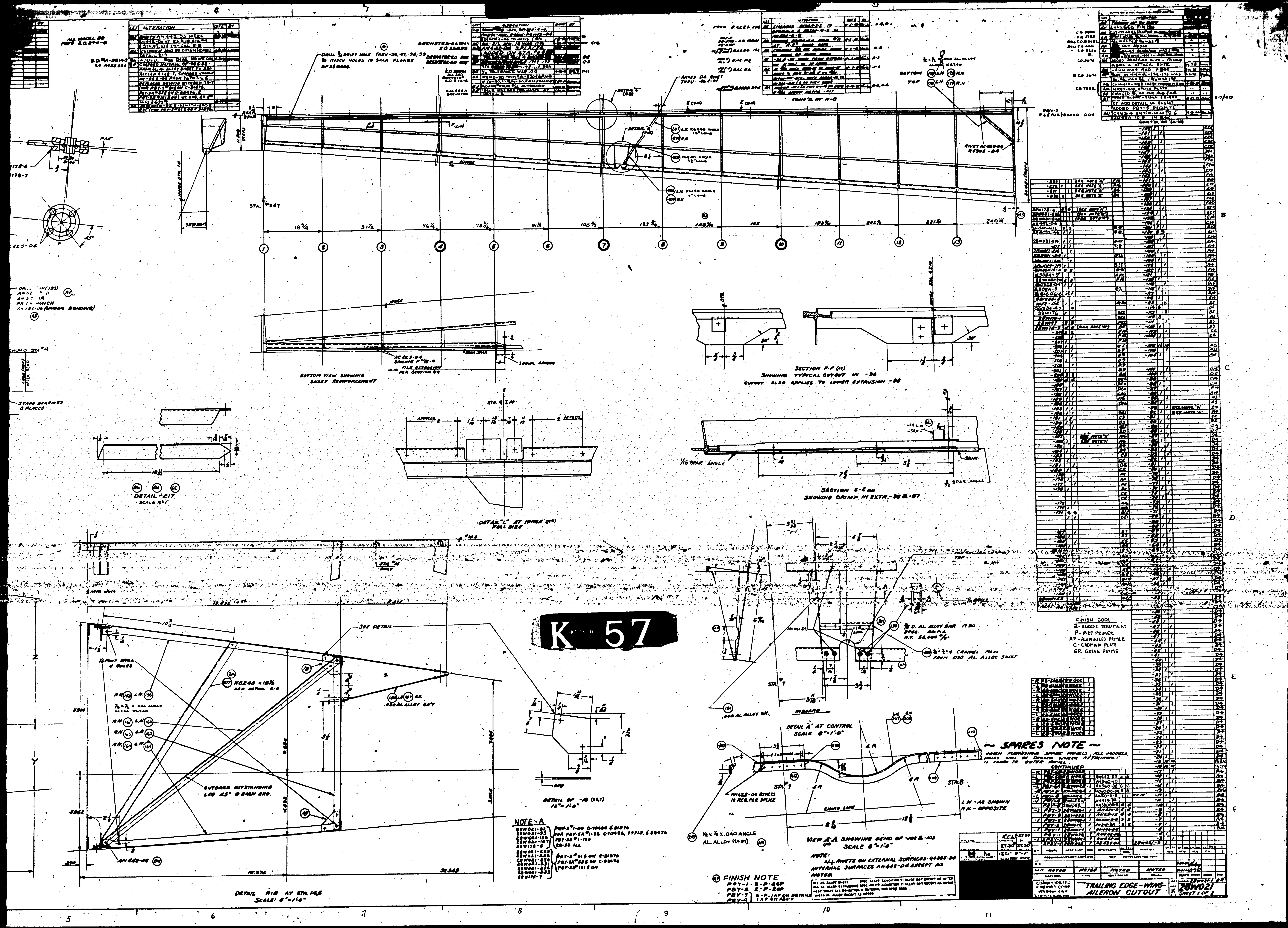
K 56



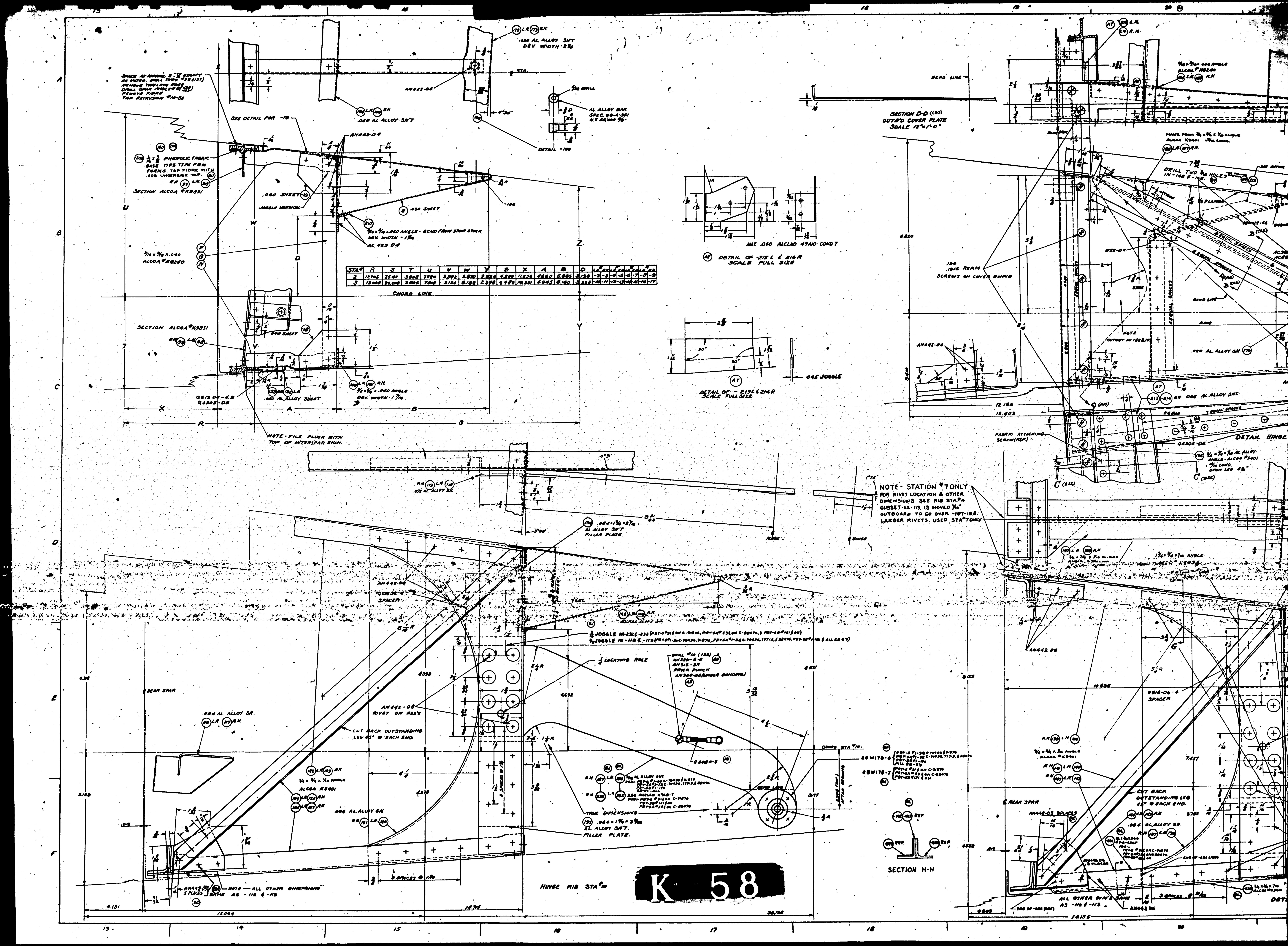
DETAIL "A"
DETAIL B
DETAIL C
DETAIL "D"
DETAIL F
DETAIL "F"
FRONT-TIP FLOAT FITT. INSTALL
REAR-TIP-FL FITT. INSTALL
FRONT FLOAT HINGE FITTING INSTALL
REAR-FL. HINGE FITT INSTALL
TYPICAL RIVET SPACING ON TRACKS
NOTE! INSULATE 28W1135 & 28W1136, 28W1133 & 28W1134 FROM
AL ALLOY STRUCTURE WITH 1 LAYER COTTON FABRIC, IMPREGNATED
WITH BITUMINOUS PAINT. SEAL EDGES WITH FILLET OF
ZINC CHROMATE PASTE.
ASSY. NOTE:
FITTING INSTALLATION WING FLOAT & RETR. MECH.
K 56



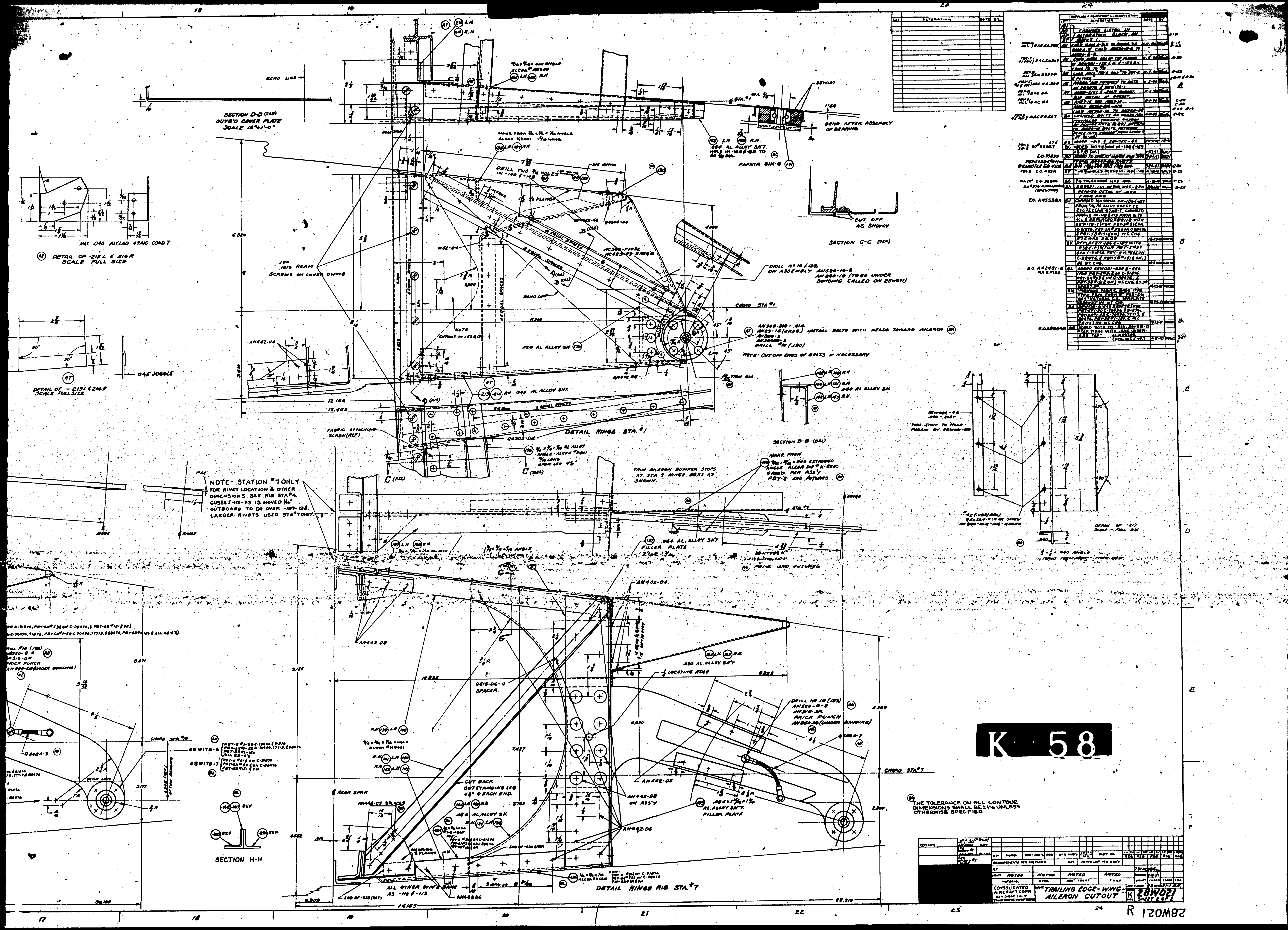
STA.#	R	S	T	U	V	W	Y	Z	X	A	B	D	C LH	C RH	E LH	E RH	F LH	F RH	G LH	G RH	H LH	H RH
5	13.591	27.183	4.188	8.382	3.474	6.820	2.580	4.934	8.596	6.438	6.546	3.715	20	21	22	23	24	25	26	27	28	29
6	13.872	27.746	4.372	8.752	3.628	7.122	2.682	5.152	7.756	8.630	6.738	3.901	30	31	32	33	34	35	36	37	38	39
8	14.458	28.917	4.760	9.510	3.944	7.744	2.030	5.600	6.000	12.125	7.132	4.280	40	41	42	43	44	45	46	47	48	49
9	14.762	29.524	4.900	9.815	4.110	8.070	3.056	5.840	5.070	13.436	7.340	4.490	50	51	52	53	54	55	56	57	58	59
11	15.366	30.733	5.366	10.708	4.442	8.716	3.300	6.302	3.573	16.006	7.753	4.894	60	61	62	63	64	65	66	67	68	69
12	15.669	31.336	5.558	11.100	4.600	9.030	3.424	6.542	2.300	17.296	7.960	5.096	70	71	72	73	74	75	76	77	78	79
13	15.971	31.943	5.754	11.500	4.768	9.356	3.548	6.772	1.450	18.565	8.167	5.298	80	81	82	83	84	85	86	87	88	89



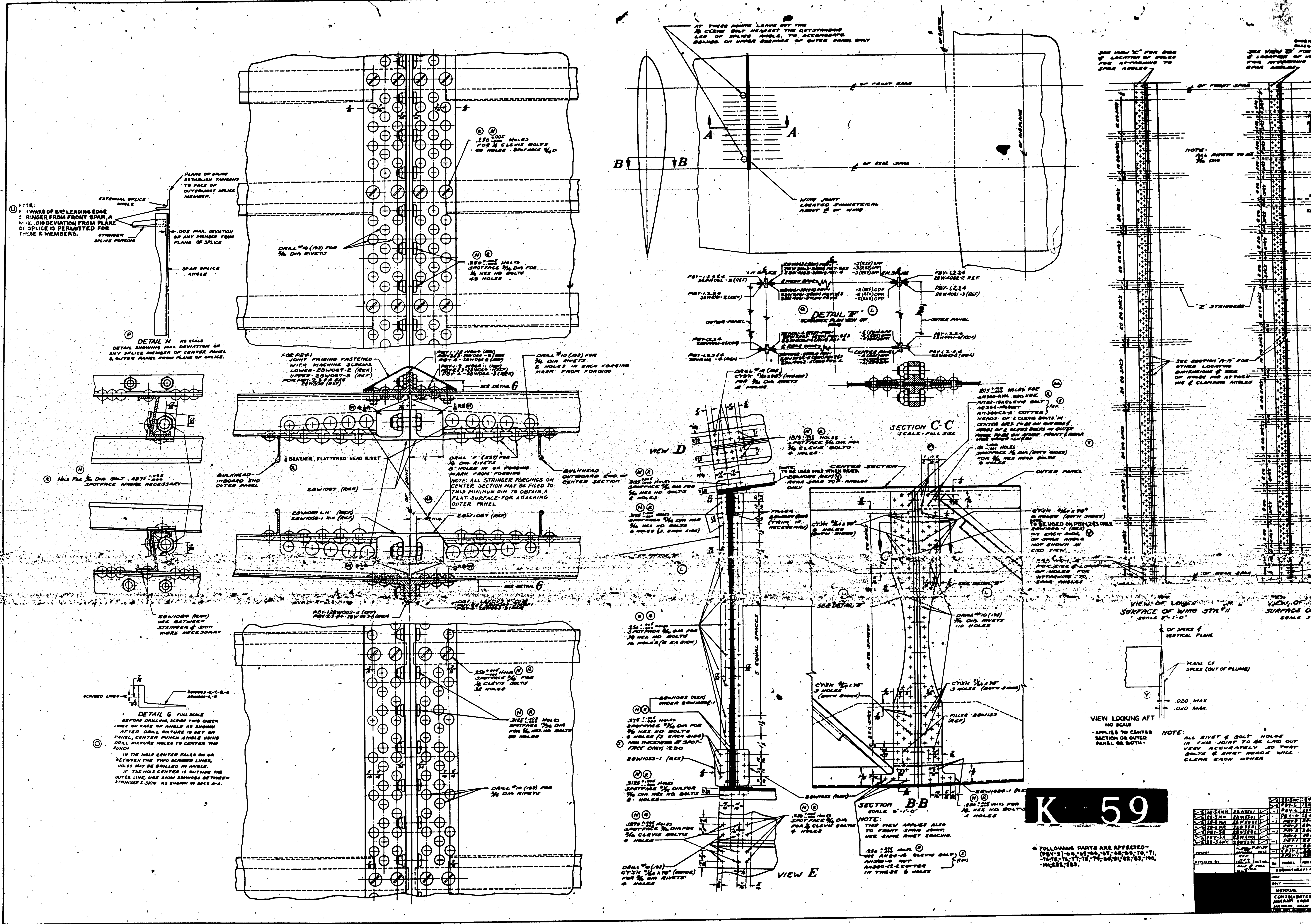
K 57
SECTION F-F
SHOWING TYPICAL CUTOUT
SECTION E-E
SHOWING CRIMP IN EXTR.-56 & -57
BOTTOM VIEW SHOWING SHEET REINFORCEMENT
DETAIL -217
DETAIL "L" AT HINGE
FULL SIZE
DETAIL RIB AT STA. 14.5
SCALE: 6"=1'-0"
DETAIL "A" AT CONTROL
SCALE 6"=1'-0"
VIEW A-A SHOWING BEND OF -102 & -103
SCALE 6"=1'-0"
DETAIL OF -10
12"=1'-0"
NOTE-A
FINISH CODE
Z - ANODIC TREATMENT
P - RZT PRIMER
AP - ALUMINIZED PRIMER
C - CADMIUM PLATE
GP. GREEN PRIME
~ SPARES NOTE ~
CONTINUED
L.H. - AS SHOWN
R.H. - OPPOSITE
FINISH NOTE
NOTE:
ALL RIVETS ON EXTERNAL SURFACES
CONSOLIDATED AIRCRAFT CORP.
TRAILING EDGE-WING
AILERON CUTOUT
28W021



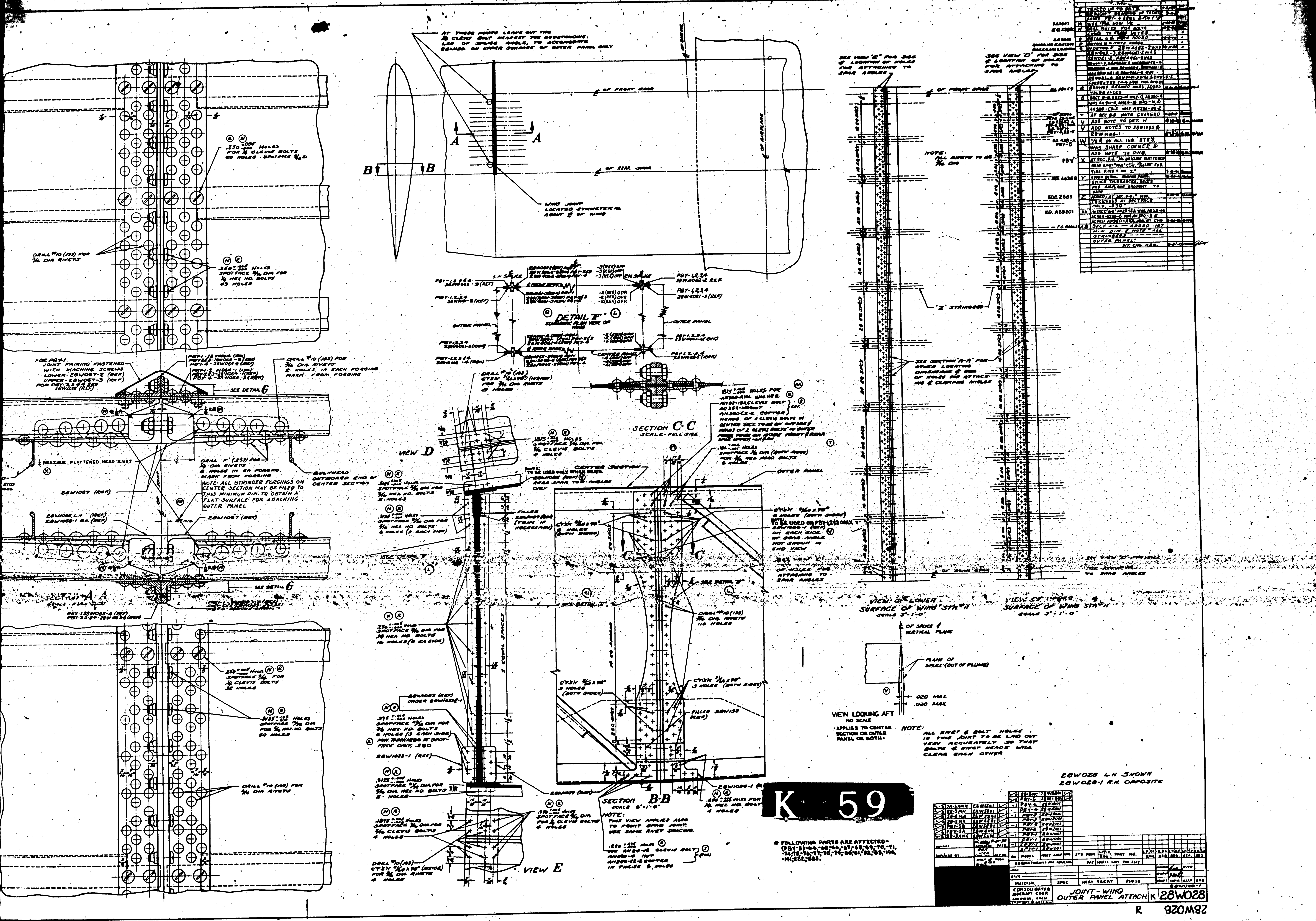
STA#	R	S	T	U	V	W	Y	Z	X	A	B	D	E LH	E RH	F LH	F RH	G LH	G RH	H LH	H RH
2	12.705	25.411	3.008	7.220	2.992	5.870	2.224	4.200	11.256	4.660	6.985	3.138	-2	-3	-4	-5	-6	-7	-8	-9
3	13.008	26.016	3.006	7.619	3.156	6.182	2.346	4.480	10.351	5.945	6.150	3.325	-10	-11	-12	-13	-14	-15	-16	-17

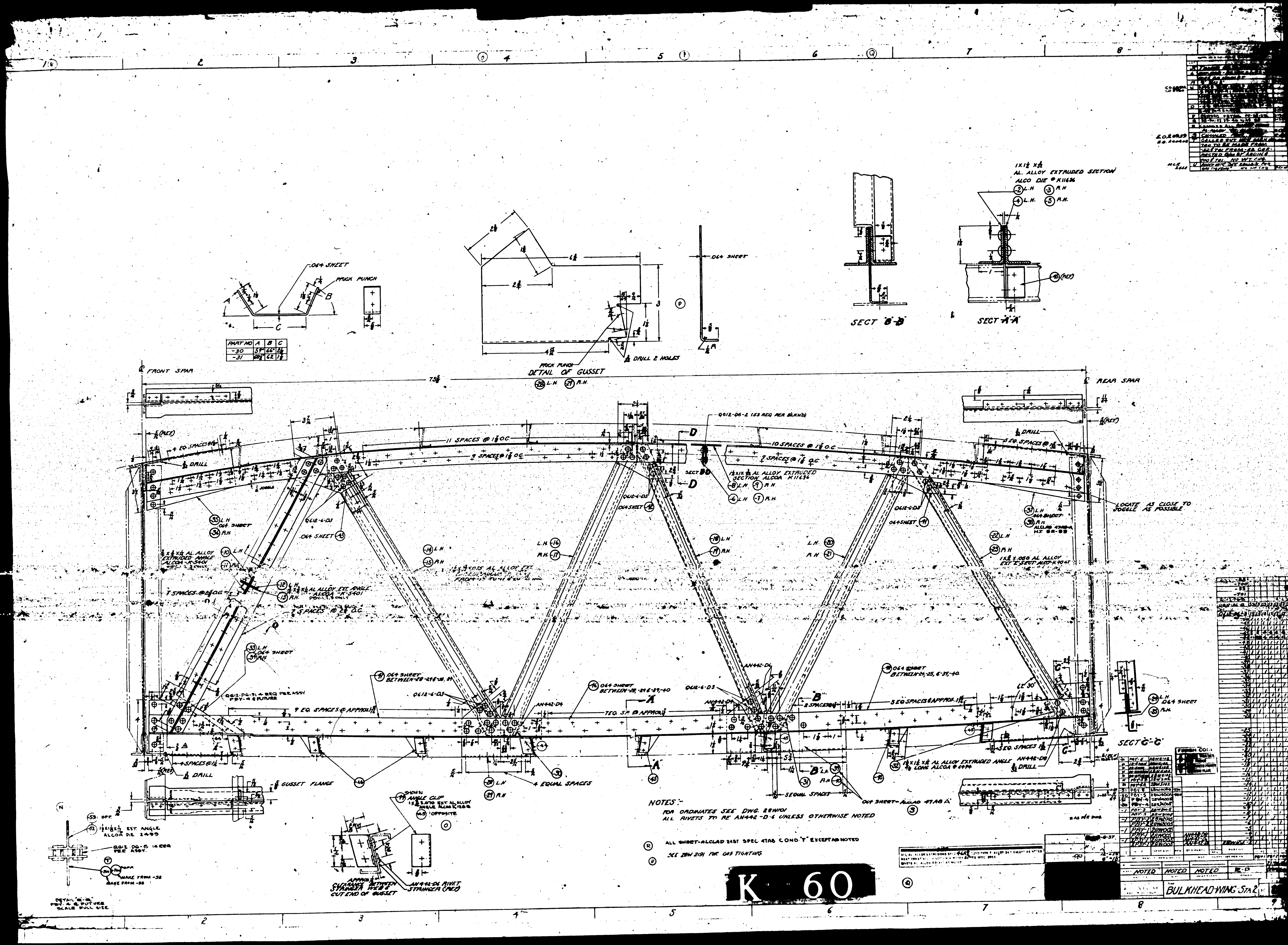


SECTION D-D
OUTB'D COVER PLATE
SCALE 12"=1'-0"
DETAIL OF -215 L & 216 R
SCALE FULL SIZE
MAT. .040 ALCLAD 47A10-COND T
SECTION C-C
DETAIL HINGE STA. #1
SECTION B-B
NOTE- STATION #7 ONLY
FOR RIVET LOCATION & OTHER
DIMENSIONS SEE RIB STA #4
GUSSET-112-113 IS MOVED 1/16"
OUTBOARD TO GO OVER -187-198.
LARGER RIVETS USED STA #7 ONLY.
TRIM AILERON BUMPER STOPS
AT STA 7 HINGE BRKT AS
SHOWN.
SECTION H-H
DETAIL HINGE RIB STA. #7
THE TOLERANCE ON ALL CONTOUR
DIMENSIONS SHALL BE ±1/16 UNLESS
OTHERWISE SPECIFIED
K 58
CONSOLIDATED
AIRCRAFT CORP.
SAN DIEGO, CALIF
TRAILING EDGE - WING -
AILERON CUTOUT
K
28W021
SHEET 2 OF 2
R 28W021

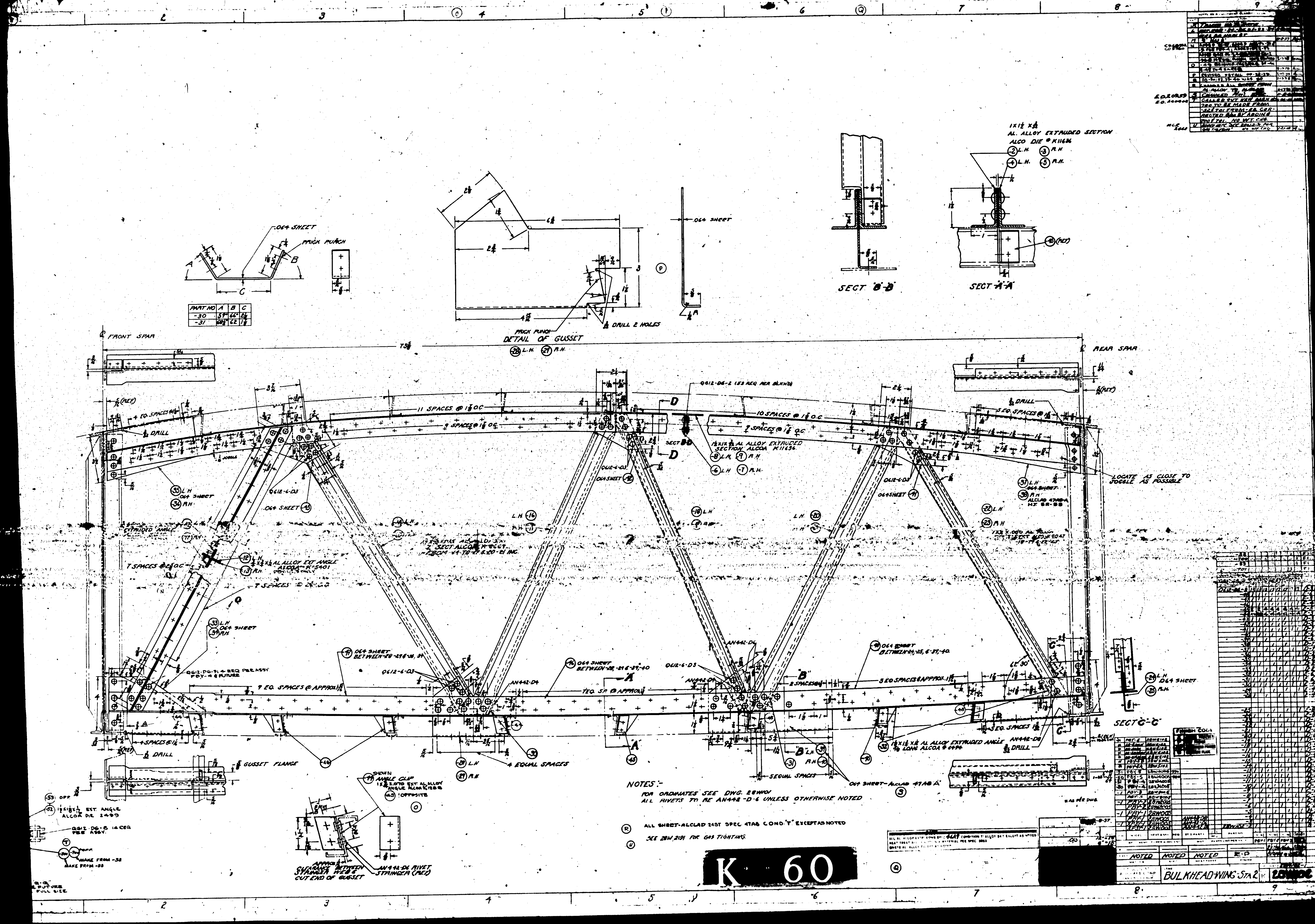


DETAIL H NO SCALE
DETAIL SHOWING MAX. DEVIATION OF ANY SPLICE MEMBER OF CENTER PANEL & OUTER PANEL FROM PLANE OF SPLICE.
DETAIL G FULL SCALE
DETAIL "F" SCHEMATIC PLAN VIEW OF WING
WING JOINT LOCATED SYMMETRICAL ABOUT ℄ OF WING
SECTION C-C SCALE - FULL SIZE
VIEW D
VIEW E
SECTION B-B SCALE 6"-1'-0"
CENTER SECTION
OUTER PANEL
VIEW OF LOWER SURFACE OF WING STA #11 SCALE 3"-1'-0"
VIEW LOOKING AFT NO SCALE
NOTE: ALL STRINGER FORGINGS ON CENTER SECTION MAY BE FILED TO THIS MINIMUM DIM TO OBTAIN A FLAT SURFACE FOR ATTACHING OUTER PANEL
NOTE: ALL RIVET & BOLT HOLES IN THIS JOINT TO BE LAID OUT VERY ACCURATELY SO THAT BOLTS & RIVET HEADS WILL CLEAR EACH OTHER
K 59

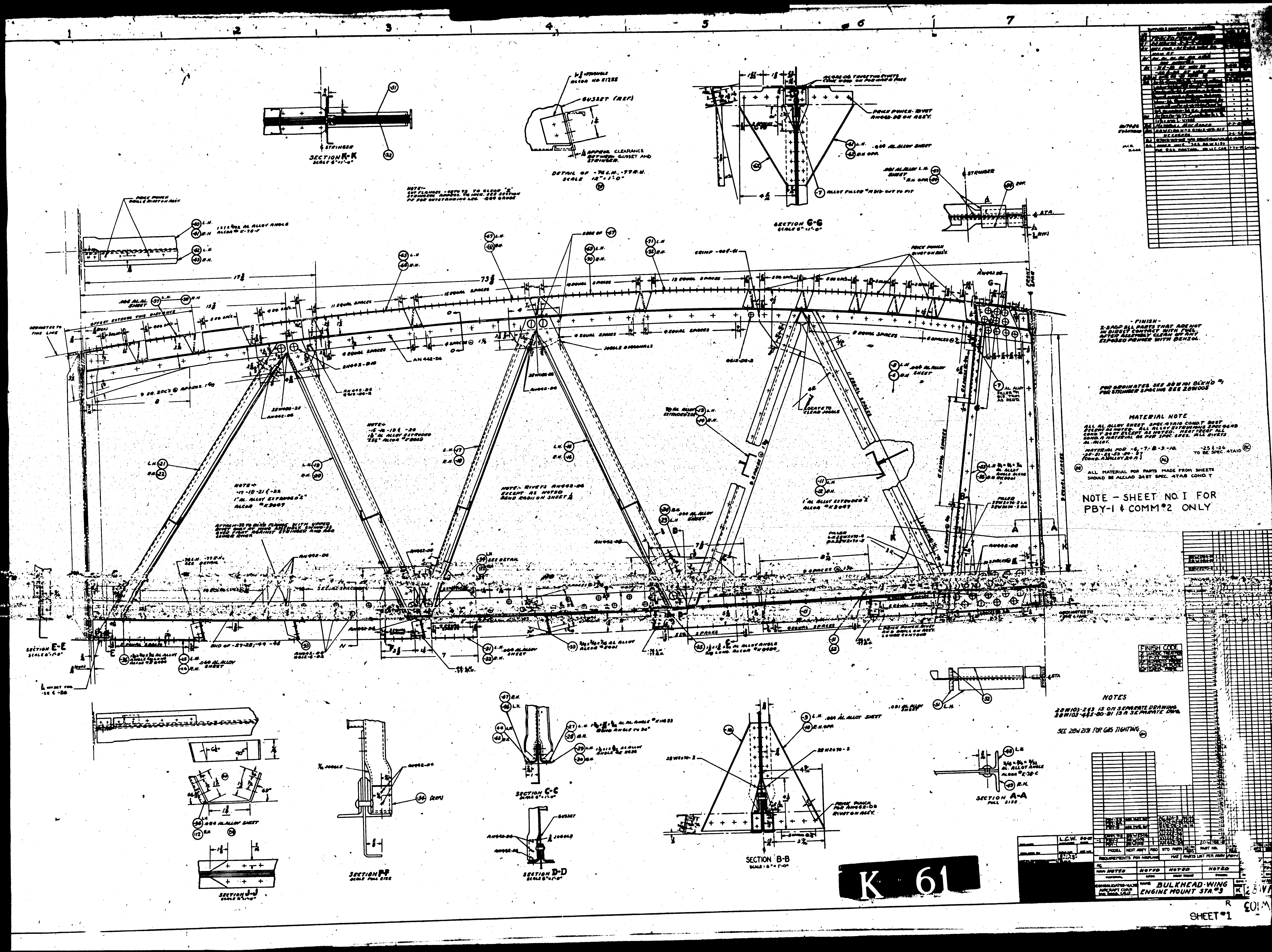

SECTION C-C
SCALE - FULL SIZE
DETAIL "F"
SCHEMATIC PLAN VIEW OF WING
VIEW D
VIEW E
SECTION A-A
SECTION B-B
SCALE 6" - 1'-0"
VIEW OF LOWER SURFACE OF WING STA #11
VIEW OF UPPER SURFACE OF WING STA #11
SCALE 3" - 1'-0"
VIEW LOOKING AFT
NO SCALE
NOTE: ALL RIVET & BOLT HOLES IN THIS JOINT TO BE LAID OUT VERY ACCURATELY SO THAT BOLTS & RIVET HEADS WILL CLEAR EACH OTHER
28W028 L.H. SHOWN
28W028-1 R.H. OPPOSITE
K 59
CONSOLIDATED AIRCRAFT CORP.
JOINT - WING OUTER PANEL ATTACH
K 28W028
R 28W028



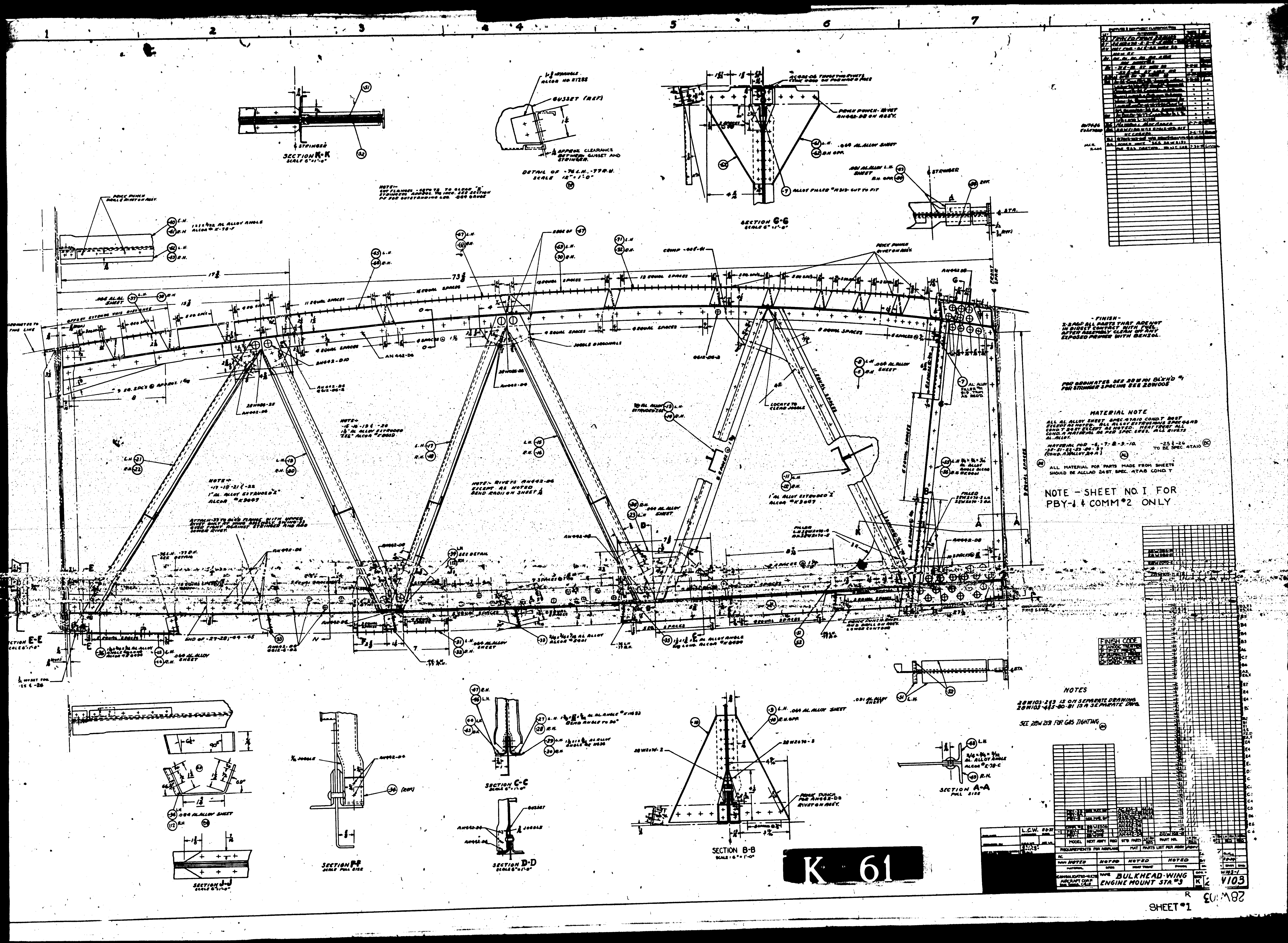
DETAIL OF GUSSET
FRONT SPAR
REAR SPAR
SECT "B-B"
SECT "A-A"
SECT "C-C"
.064 SHEET
PRICK PUNCH
11 SPACES @ 1 1/8 O.C.
10 SPACES @ 1 1/8 O.C.
LOCATE AS CLOSE TO JOGGLE AS POSSIBLE
4 EQUAL SPACES
NOTES:-
FOR ORDINATES SEE DWG. 28W101
ALL RIVETS TO BE AN442-D-6 UNLESS OTHERWISE NOTED
ALL SHEET-ALCLAD 24ST SPEC 47A8 COND "T" EXCEPT AS NOTED
SEE 28W 2191 FOR GAS TIGHTING
BULKHEAD-WING STA 2
K 60



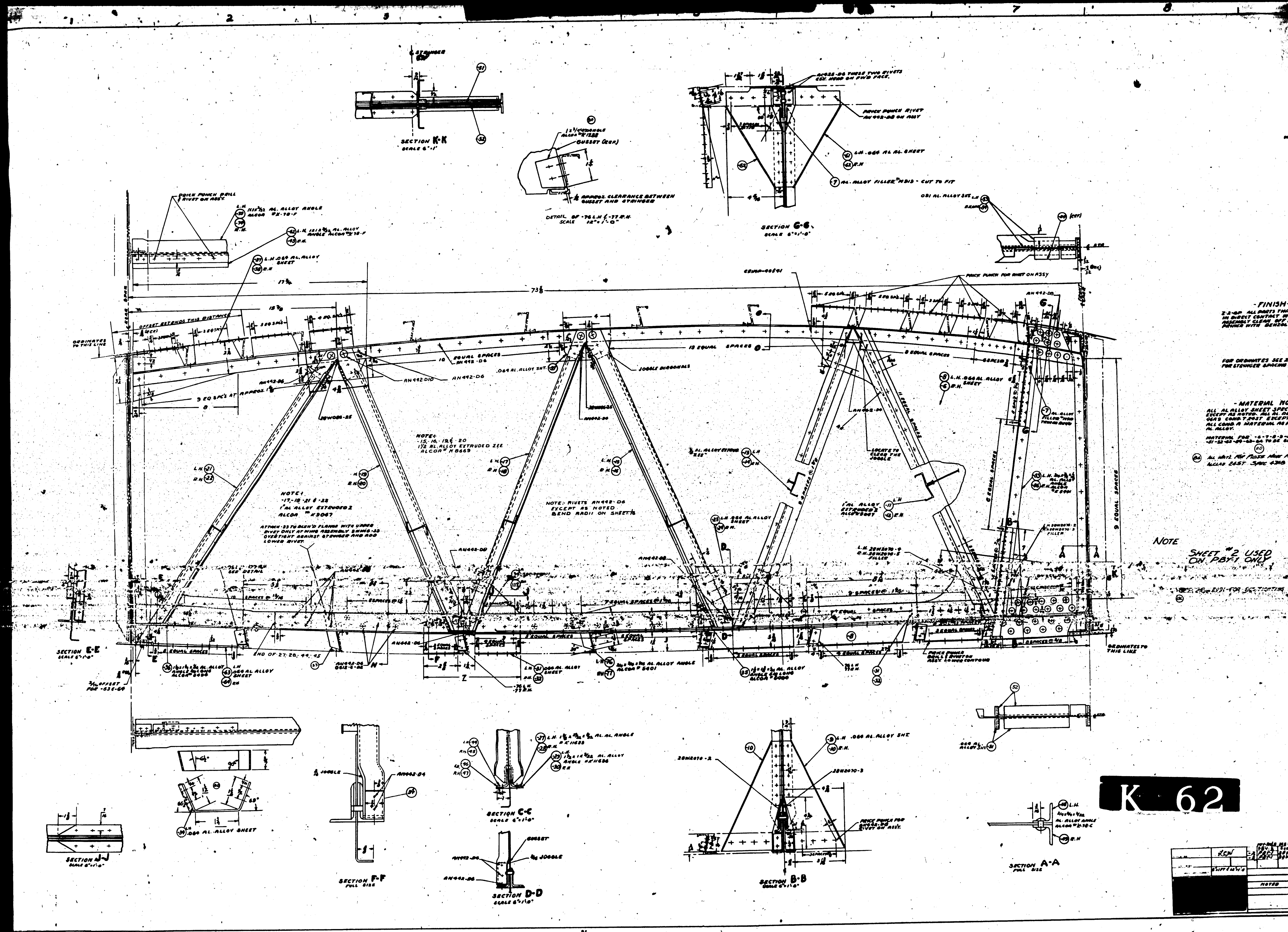
DETAIL OF GUSSET
.064 SHEET
PRICK PUNCH
SECT B-B
SECT A-A
SECT C-C
1x1½ x⅛ AL. ALLOY EXTRUDED SECTION ALCO DIE # K11636
FRONT SPAR
REAR SPAR
11 SPACES @ 1⅛ O.C.
10 SPACES @ 1⅛ O.C.
LOCATE AS CLOSE TO JOGGLE AS POSSIBLE
4 EQUAL SPACES
GUSSET FLANGE
NOTES:-
FOR ORDINATES SEE DWG. 28W101
ALL RIVETS TO BE AN442-D-6 UNLESS OTHERWISE NOTED
ALL SHEET-ALCLAD 24ST SPEC. 47A6 COND. "T" EXCEPT AS NOTED
SEE 28W 2191 FOR GAS TIGHTING
.064 SHEET-ALCLAD 47A6 A
ANGLE CLIP
AN442-D6 RIVET
STRINGER (REF)
K 60
BULKHEAD-WING STA 2

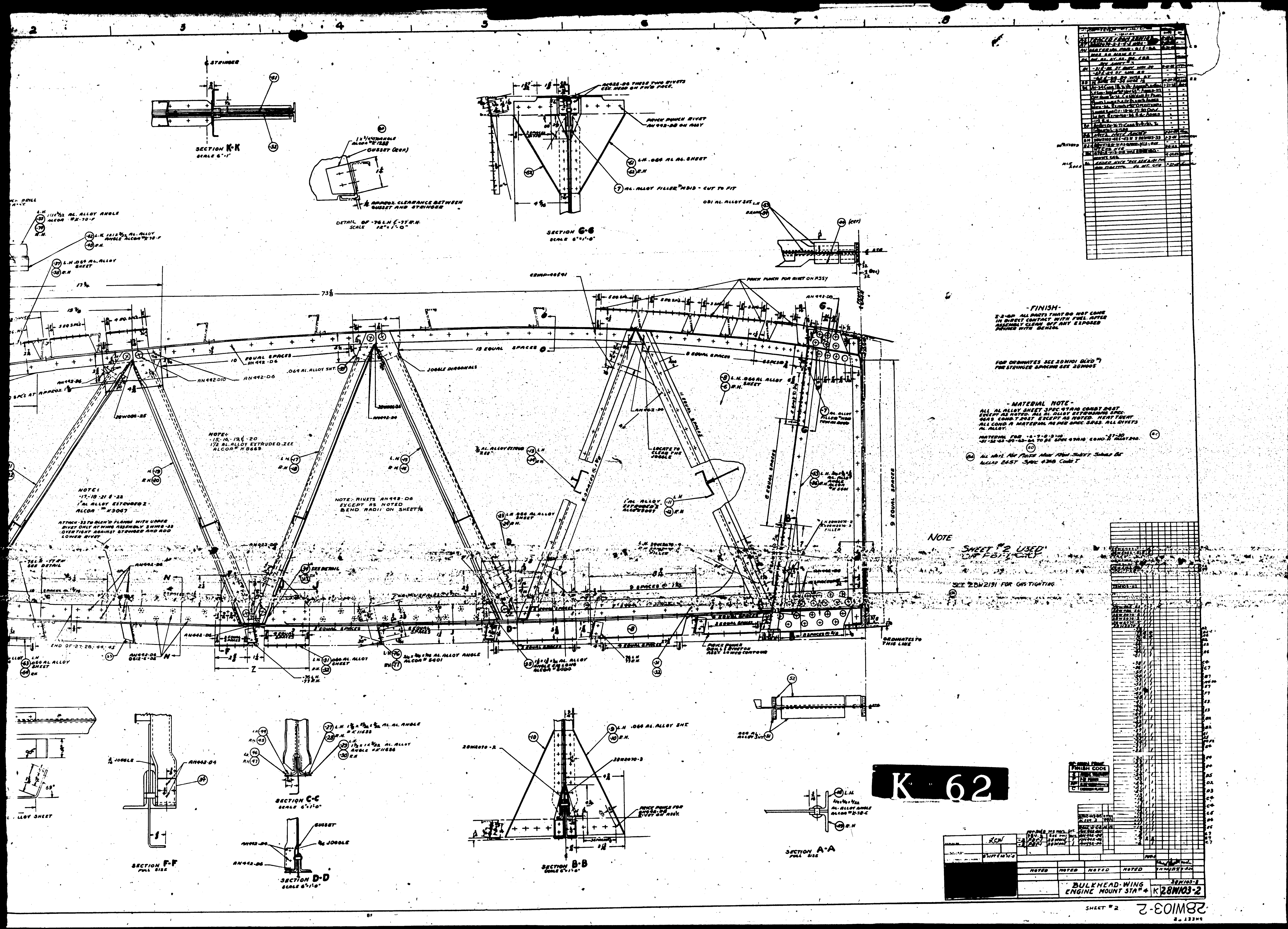


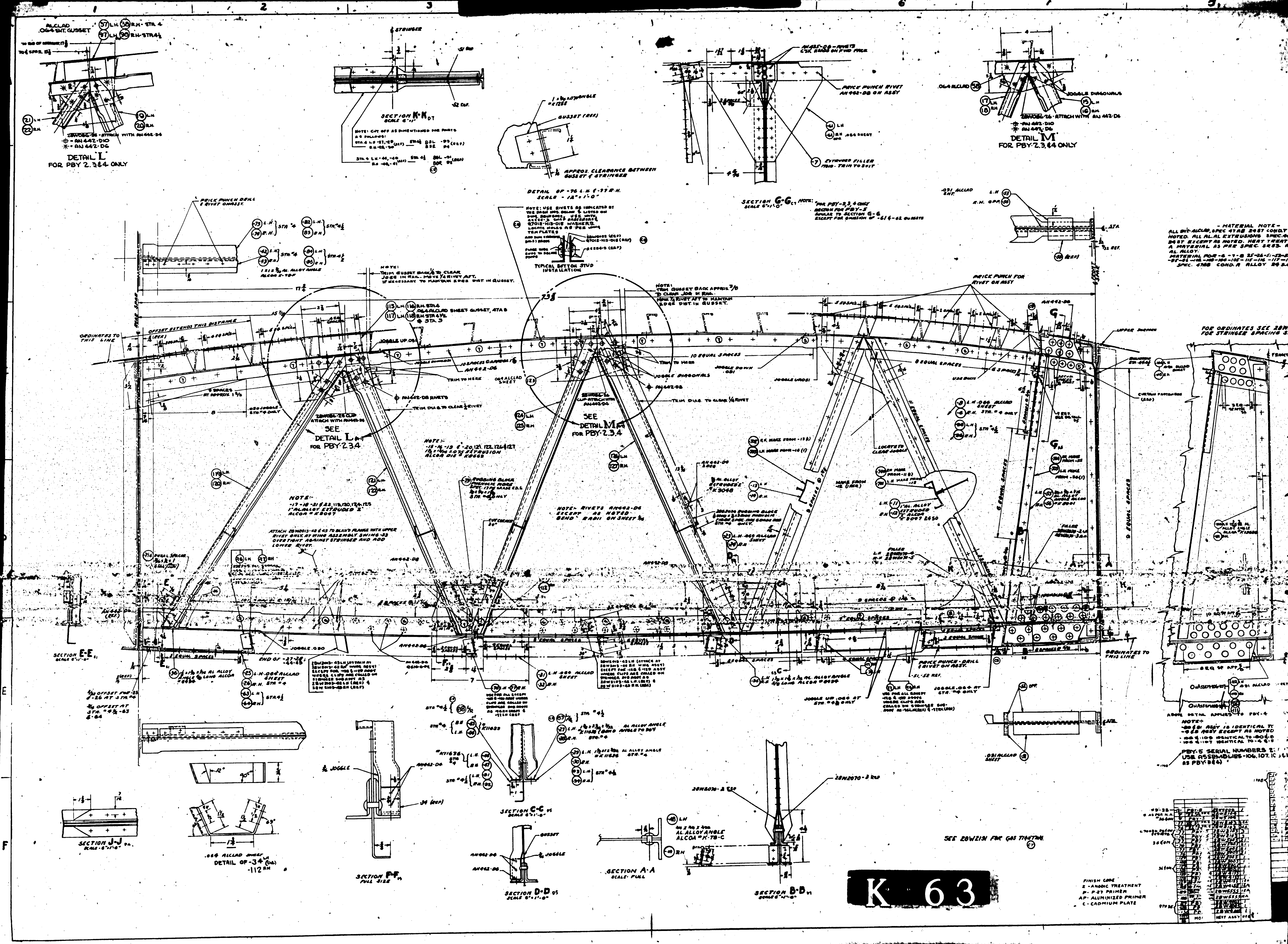
SECTION K-K
SECTION G-G
SECTION E-E
SECTION C-C
SECTION D-D
SECTION B-B
SECTION A-A
- FINISH -
MATERIAL NOTE
ALL MATERIAL FOR PARTS MADE FROM SHEETS SHOULD BE ALCLAD 24ST SPEC. 4TAB COND. T
NOTE - SHEET NO. I FOR PBY-1 & COMM #2 ONLY
FINISH CODE
NOTES
SEE 28W2131 FOR GAS TIGHTING
K 61
CONSOLIDATED AIRCRAFT CORP.
BULKHEAD-WING ENGINE MOUNT STA. #3
SHEET #1

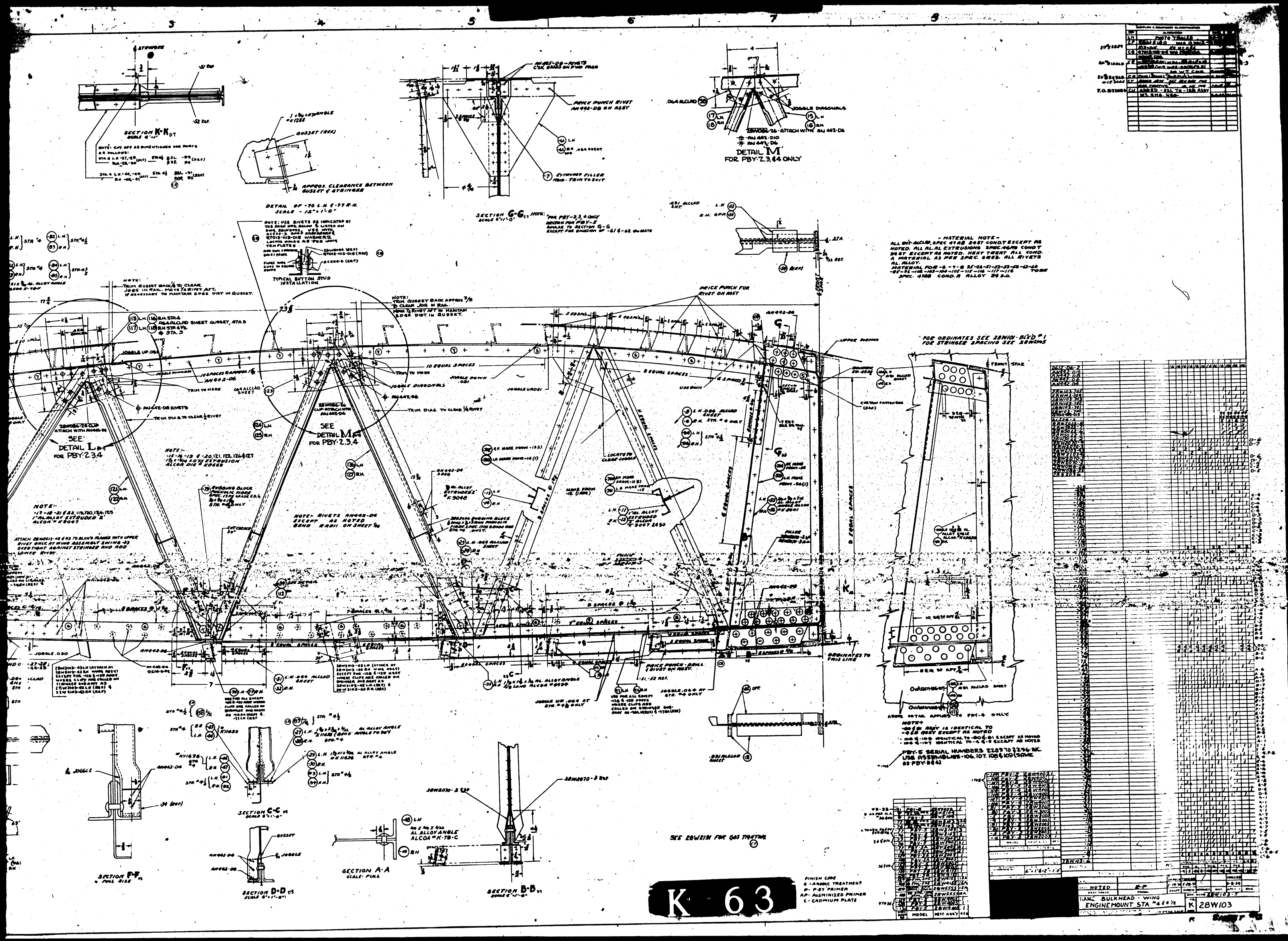


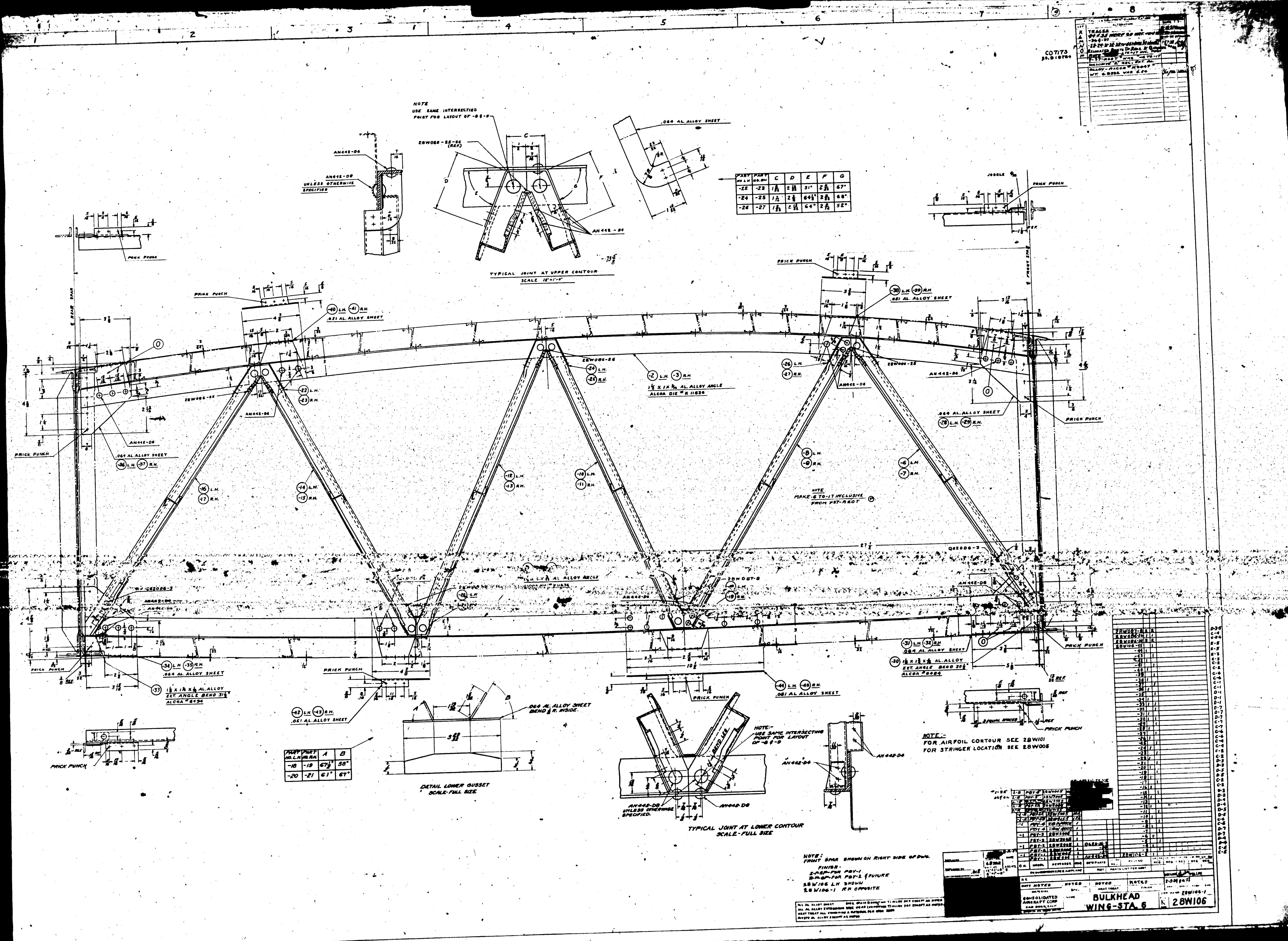
SECTION K-K
SECTION C-C
SECTION G-G
SECTION E-E
SECTION F-F
SECTION D-D
SECTION B-B
SECTION A-A
- FINISH -
MATERIAL NOTE
ALL MATERIAL FOR PARTS MADE FROM SHEETS SHOULD BE ALCLAD 24ST. SPEC. 47A6 COND. T
NOTE - SHEET NO. I FOR PBY-1 & COMM #2 ONLY
FINISH CODE
NOTES
SEE 28W2131 FOR GAS TIGHTING
K 61
BULKHEAD-WING ENGINE MOUNT STA. #3
CONSOLIDATED AIRCRAFT CORP.
28W103
SHEET #1

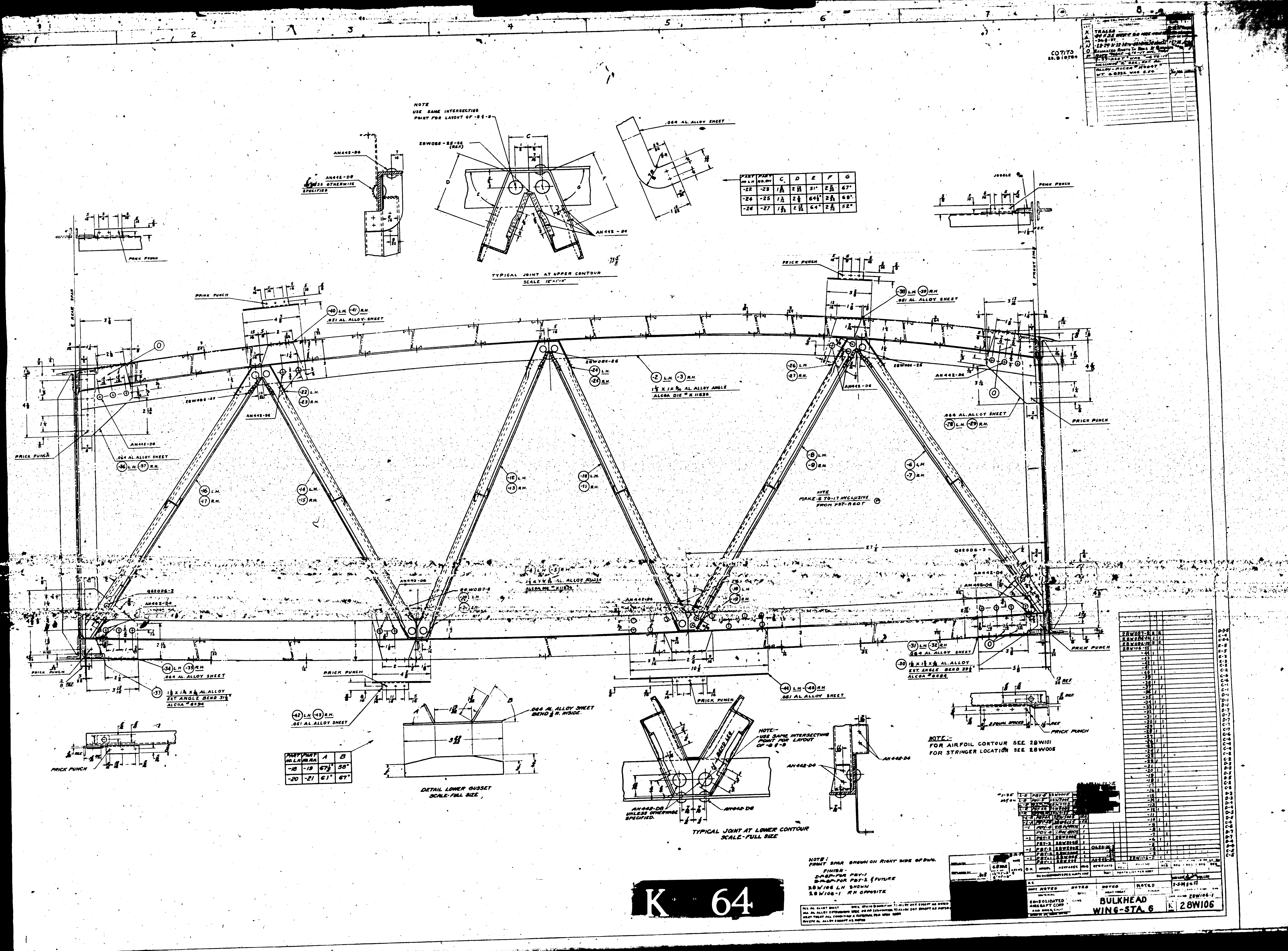

SECTION K-K
SCALE 6"-1'
SECTION G-G
SECTION E-E
SECTION J-J
SECTION F-F
FULL SIZE
SECTION C-C
SECTION D-D
SECTION B-B
SECTION A-A
FULL SIZE
JOGGLE DIAGONALS
NOTE: RIVETS AN442-D6 EXCEPT AS NOTED. BEND RADII ON SHEET 6
-FINISH-
-MATERIAL NO
NOTE
SHEET #2 USED ON PBY-1 ONLY
ORDINATES TO THIS LINE
K 62

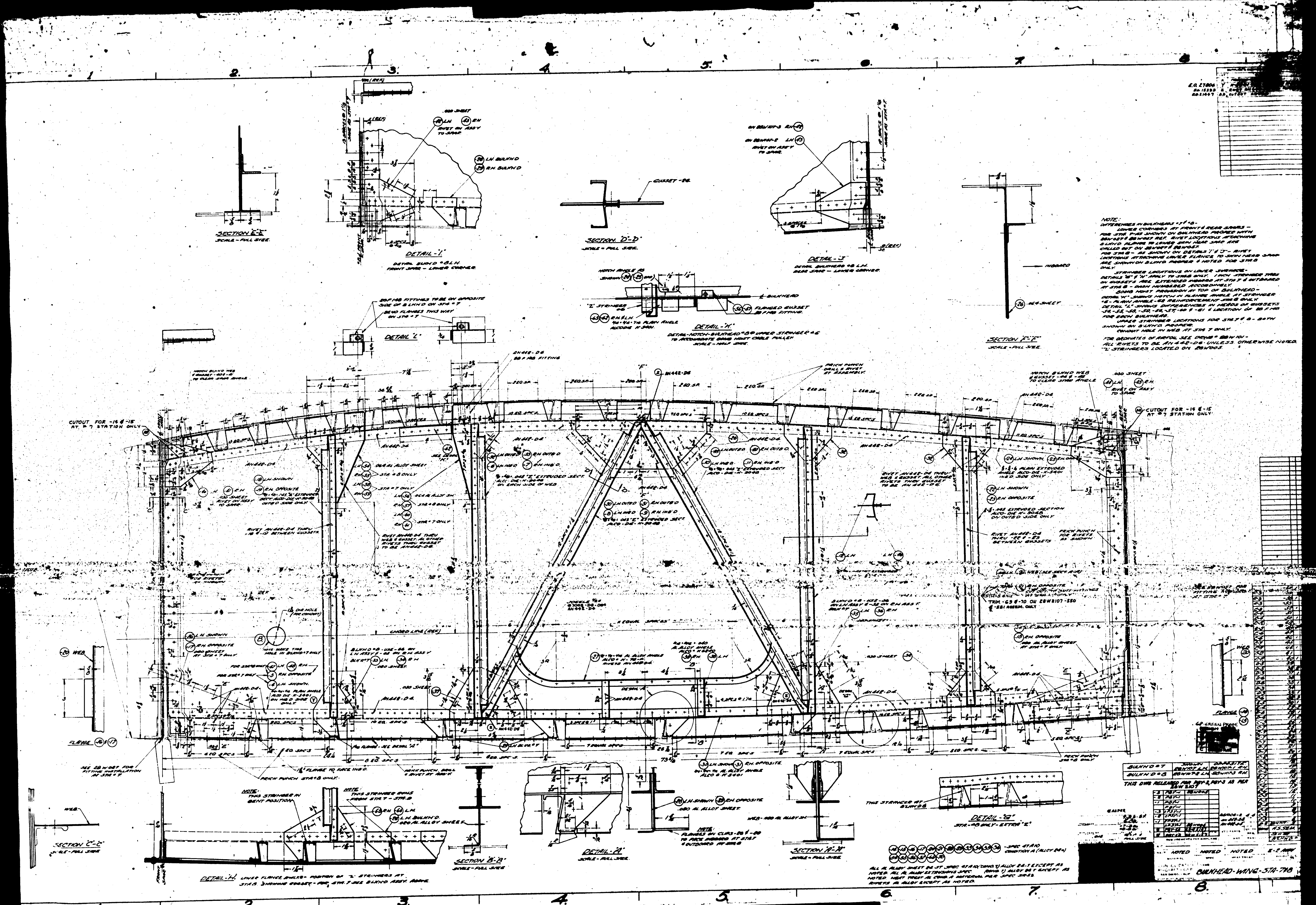

SECTION K-K
SCALE 6"=1'
DETAIL OF -76 L.H. & -77 R.H.
SCALE 12"=1'-0"
SECTION G-G
SCALE 6"=1'-0"
-FINISH-
FOR ORDINATES SEE 28W101 BLK'D
FOR STRINGER SPACING SEE 28W005
- MATERIAL NOTE -
NOTE: RIVETS AN442-D6 EXCEPT AS NOTED BEND RADII ON SHEET 1
NOTE SHEET #2 USED
SEE 28W2191 FOR GAS TIGHTING
SECTION F-F
FULL SIZE
SECTION C-C
SCALE 6"=1'-0"
SECTION D-D
SCALE 6"=1'-0"
SECTION B-B
SCALE 6"=1'-0"
SECTION A-A
FULL SIZE
K 62
BULKHEAD-WING ENGINE MOUNT STA. #4
28W103-2
SHEET #2


DETAIL "L"
FOR PBY 2,3&4 ONLY
SECTION K-K
DETAIL "M"
FOR PBY-2,3,&4 ONLY
SECTION G-G
TYPICAL BUTTON STUD INSTALLATION
- MATERIAL NOTE -
SEE DETAIL L FOR PBY-2,3,4
SEE DETAIL M FOR PBY-2,3,4
NOTE- RIVETS AN442-D6 EXCEPT AS NOTED. BEND RADII ON SHEET
SECTION E-E
SECTION J-J
DETAIL OF -34 -112
SECTION F-F FULL SIZE
SECTION C-C
SECTION D-D
SECTION A-A SCALE FULL
SECTION B-B
SEE 28W2131 FOR GAS TIGHTING
FINISH CODE
Z - ANODIC TREATMENT
P - P-27 PRIMER
AP - ALUMINIZED PRIMER
C - CADMIUM PLATE
PBY-5 SERIAL NUMBERS
K 63

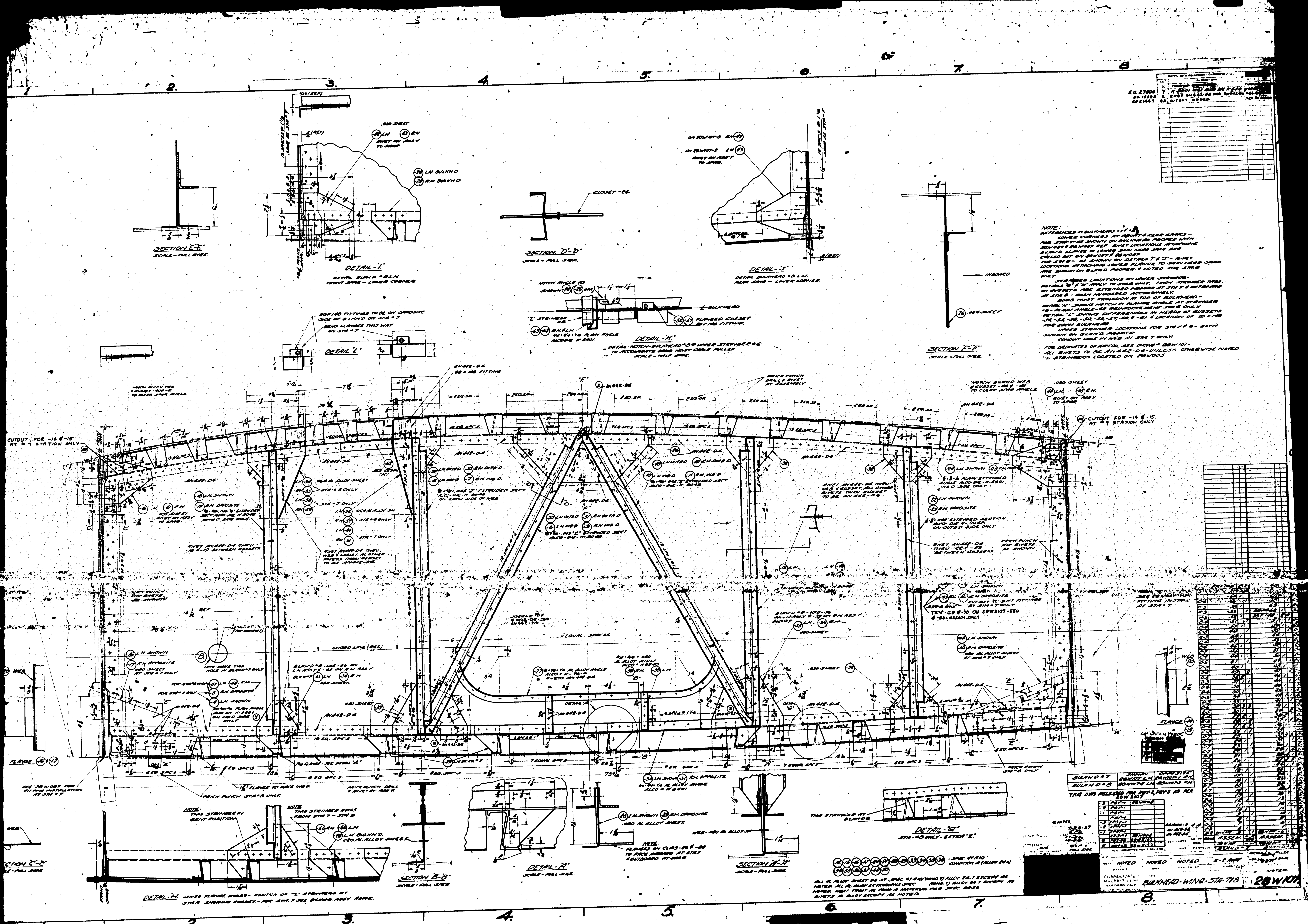

SECTION K-K
DETAIL M
FOR PBY-2,3,&4 ONLY
SECTION G-G
SEE DETAIL L
FOR PBY-2,3,4
SEE DETAIL M
FOR PBY-2,3,4
TYPICAL BUTTON STUD INSTALLATION
APPROX. CLEARANCE BETWEEN GUSSET & STRINGER
PRICK PUNCH RIVET
10 EQUAL SPACES
8 EQUAL SPACES
JOGGLE DIAGONALS
TRIM TO HERE
TRIM DIAG. TO CLEAR 1/8 RIVET
ORDINATES TO THIS LINE
SECTION F-F
SECTION C-C
SECTION D-D
SECTION A-A
SECTION B-B
SEE 28W2151 FOR GAS TIGHTING
FINISH CODE
Z - ANODIC TREATMENT
P - P-27 PRIMER
AP - ALUMINIZED PRIMER
C - CADMIUM PLATE
MODEL
NEXT ASSY
NOTED
BULKHEAD - WING
ENGINEMOUNT STA 4 1/2
28W103
K 63


TYPICAL JOINT AT UPPER CONTOUR
SCALE 12"=1'-0"
NOTE
USE SAME INTERSECTING POINT FOR LAYOUT OF -84-5
.064 AL. ALLOY SHEET
UNLESS OTHERWISE SPECIFIED
PRICK PUNCH
.051 AL. ALLOY SHEET
1 3/4 X 1 X 3/32 AL. ALLOY ANGLE
ALCOA DIE # K 11636
NOTE
MAKE -6 TO -17 INCLUSIVE FROM X57-R207
DETAIL LOWER GUSSET
SCALE-FULL SIZE
TYPICAL JOINT AT LOWER CONTOUR
SCALE-FULL SIZE
NOTE:-
FOR AIRFOIL CONTOUR SEE 28W101
FOR STRINGER LOCATION SEE 28W005
NOTE:
FRONT SPAR SHOWN ON RIGHT SIDE OF DWG.
28W106 LH SHOWN
28W106-1 RH OPPOSITE
CONSOLIDATED AIRCRAFT CORP
SAN DIEGO, CALIF
BULKHEAD
WING-STA. 6
28W106
28W106-1


NOTE
USE SAME INTERSECTING POINT FOR LAYOUT OF -8 & -9
TYPICAL JOINT AT UPPER CONTOUR
SCALE 12"=1'-0"
.064 AL. ALLOY SHEET
PRICK PUNCH
.051 AL. ALLOY SHEET
1 1/4 X 1 X 3/32 AL. ALLOY ANGLE
ALCOA DIE # K 11626
NOTE
MAKE -6 TO -17 INCLUSIVE FROM K57-R2OT
DETAIL LOWER GUSSET
SCALE-FULL SIZE
.064 AL. ALLOY SHEET BEND 3/8 R. INSIDE.
NOTE:-
USE SAME INTERSECTING POINT FOR LAYOUT OF -8 & -9
TYPICAL JOINT AT LOWER CONTOUR
SCALE-FULL SIZE
AN442-D8 UNLESS OTHERWISE SPECIFIED.
NOTE:-
FOR AIRFOIL CONTOUR SEE 28W101
FOR STRINGER LOCATION SEE 28W005
NOTE:
FRONT SPAR SHOWN ON RIGHT SIDE OF DWG.
28W106 LH SHOWN
28W106-1 RH OPPOSITE
CONSOLIDATED AIRCRAFT CORP.
BULKHEAD
WING-STA. 6
28W106
K 64

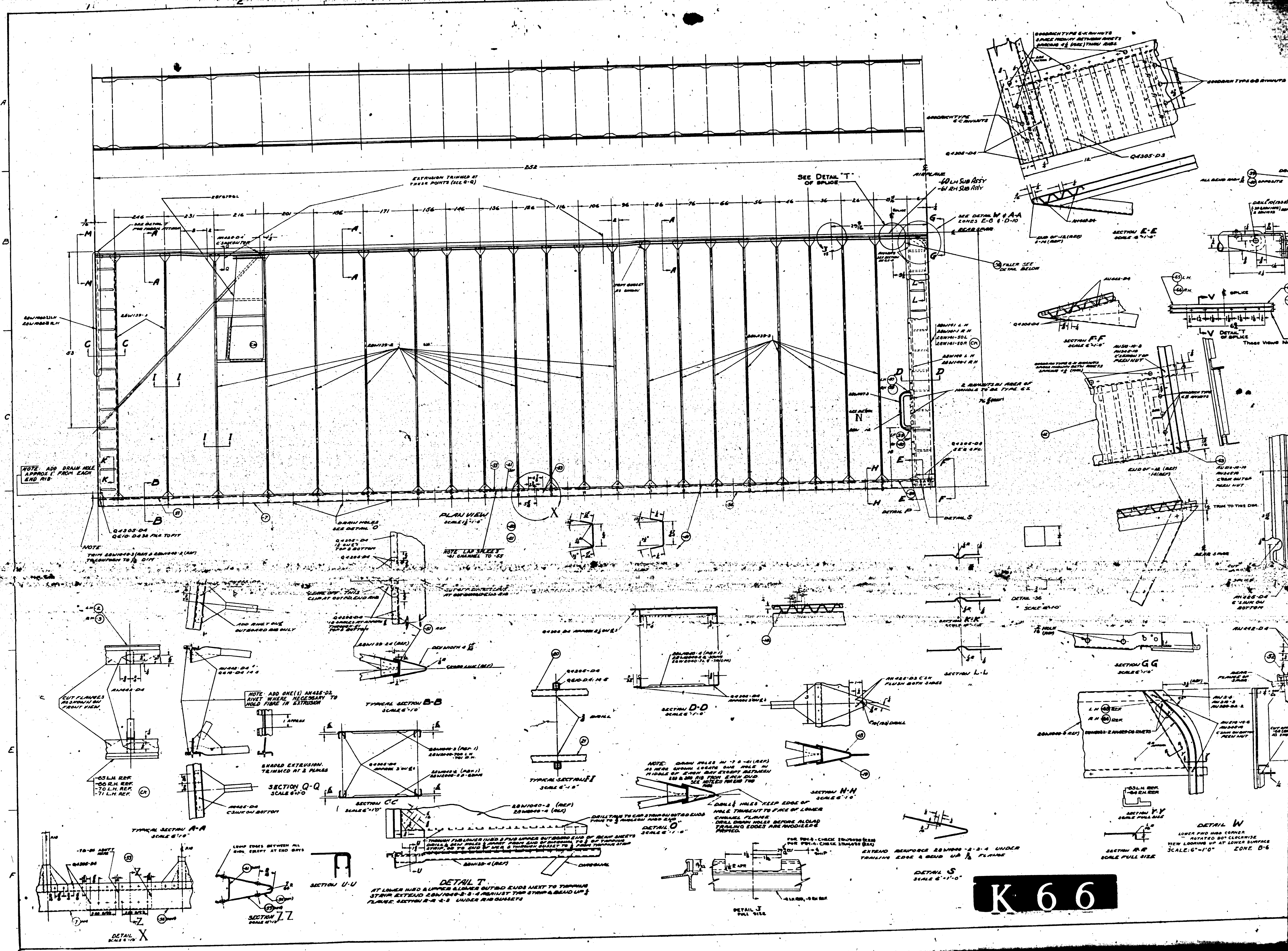

SECTION "E-E"
SCALE - FULL SIZE
DETAIL - "I"
SECTION "D-D"
SCALE - FULL SIZE
DETAIL - "J"
DETAIL - "L"
DETAIL - "K"
SECTION "F-F"
SCALE - FULL SIZE
SECTION "C-C"
DETAIL - "H"
SECTION "B-B"
SCALE - FULL SIZE
DETAIL - "A"
SCALE - FULL SIZE
SECTION "A-A"
SCALE - FULL SIZE
DETAIL - "G"
STA. #8 ONLY - EXTRA "Z"
THIS DWG RELEASED FOR PBY-2, PBY-3 AS PER 28W 2107
ALL AL ALLOY SHEET 24 ST SPEC 47A10 (COND. T) ALLOY 24-T EXCEPT AS NOTED. ALL AL ALLOY EXTRUSIONS SPEC (COND. T) ALLOY 24 T EXCEPT AS NOTED. HEAT TREAT AL COND. A MATERIAL PER SPEC SR-53. RIVETS AL ALLOY EXCEPT AS NOTED.
NOTED
NOTED
NOTED
CONSOLIDATED AIRCRAFT CORP
SAN DIEGO, CALIF
BULKHEAD - WING - STA - 7 & 8

K 65

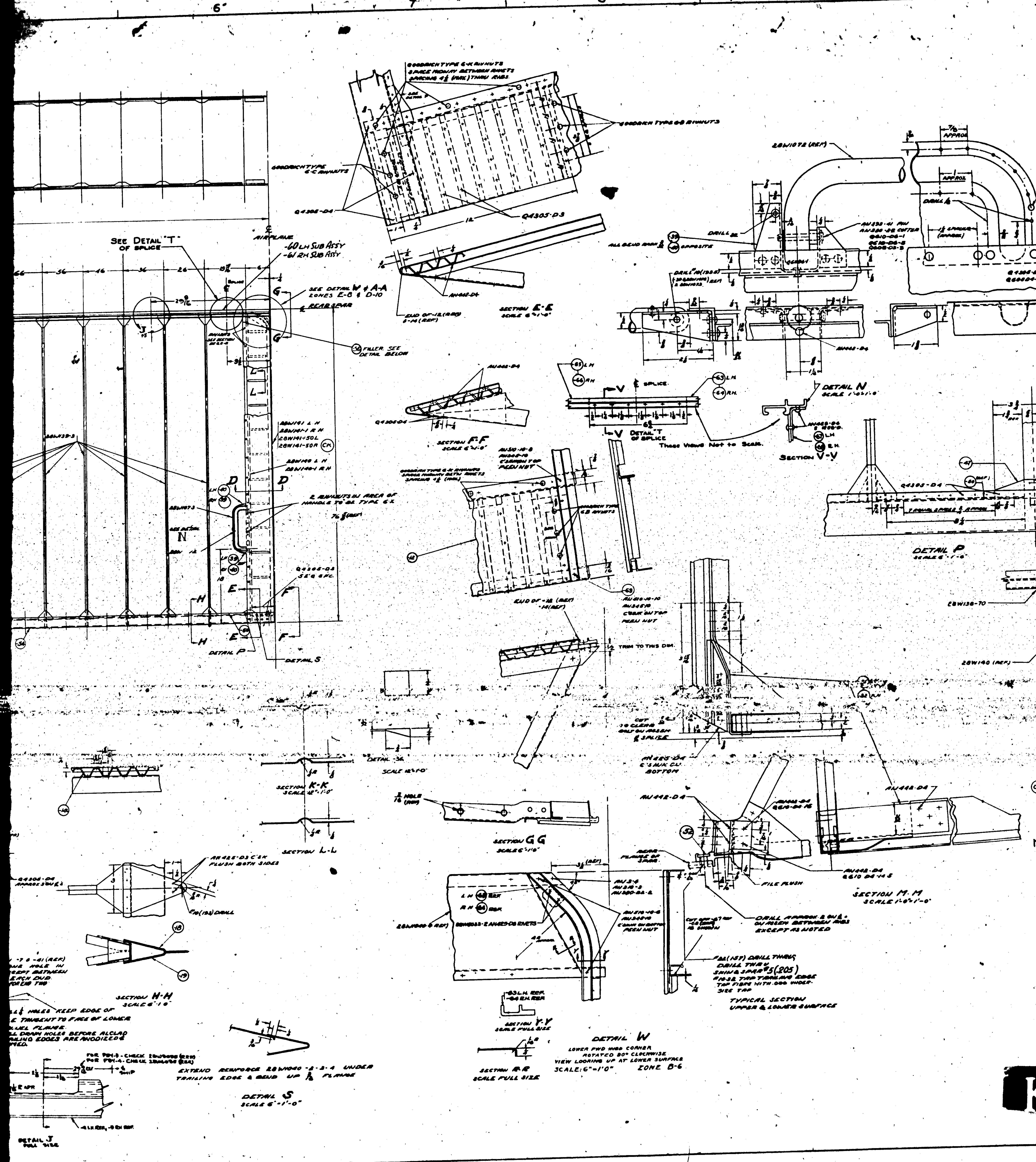


SECTION 'E-E'
SCALE - FULL SIZE
DETAIL 'I'
SECTION 'D-D'
SCALE - FULL SIZE
DETAIL 'J'
DETAIL 'L'
DETAIL 'K'
SECTION 'F-F'
SCALE - FULL SIZE
CHORD LINE (REF)
DETAIL 'H'
SECTION 'B-B'
SCALE - FULL SIZE
DETAIL 'A'
SCALE - FULL SIZE
SECTION 'H-H'
SCALE - FULL SIZE
DETAIL 'G'
BULKHEAD-WING-STA-7&8
28W107

K 65



PLAN VIEW
SEE DETAIL "T" OF SPLICE
EXTRUSION TRIMMED AT THESE POINTS (SEE Q-Q)
NOTE: ADD DRAIN HOLE APPROX 1" FROM EACH END RIB
DRAIN HOLES SEE DETAIL "O"
SECTION E-E
SECTION F-F
SECTION G G
SECTION L-L
SECTION D-D
SECTION Q-Q
SECTION C-C
SECTION H-H
SECTION U-U
SECTION Y-Y
SECTION ZZ
TYPICAL SECTION A-A
TYPICAL SECTION B-B
TYPICAL SECTION I-I
NOTE: ADD ONE(1) AN425-D2 RIVET WHERE NECESSARY TO HOLD FIBRE IN EXTRUSION
SHADED EXTRUSION. TRIMMED AT 2 PLACES
DETAIL T
DETAIL "O"
DETAIL S
DETAIL J
DETAIL W
DETAIL X
SCALE: 6"-1'0"
ZONE B-6
K 66



K 66

DETAIL AA
VIEW LOOKING DOWN AT LOWER SURFACE
SCALE: 6"=1'0" ZONE B-6

NOTES:

1. RIVETS AL. ALLOY EXCEPT AS NOTED.
2. HEAT TREAT ALL COND. A MATERIAL PER SPEC. SR53.
3. THE TOLERANCE ON ALL CONTOUR DIMENSIONS SHALL BE ±1/16, UNLESS OTHERWISE SPECIFIED, FOR AILERON, AILERON CUT OUT TR. EDGE, TR. EDGE OUTER PANEL, & TR. EDGE CENTER SECTION ASSEMBLIES.
4. WHEN FURNISHING PBY-1 SPARES, DO NOT DRILL HOLES WHERE ATTACHMENT IS TO BE MADE TO CENTER SECTION. FOR PBY-2-3-4 HOLES WILL BE DRILLED.
5. C.A.C. NU77, NU79, NU81, & NU82 MAY BE PURCHASED FROM B.F. GOODRICH CO., LOS ANGELES, CALIF. VENDOR'S NUMBERS 6K45, 6K75, 6K100, & 6K120 RESPECTIVELY, OR EQUIVALENT.
6. LAMINATED PHENOLIC SHEET, SPEC. 17P5, TYPE F.B.G. FORMS MAY BE USED AS ALTERNATE MATERIAL FOR 28W138-32.

PARTS LIST PER ASSY. — PART NO. | STOCK | MATERIAL | SPEC.

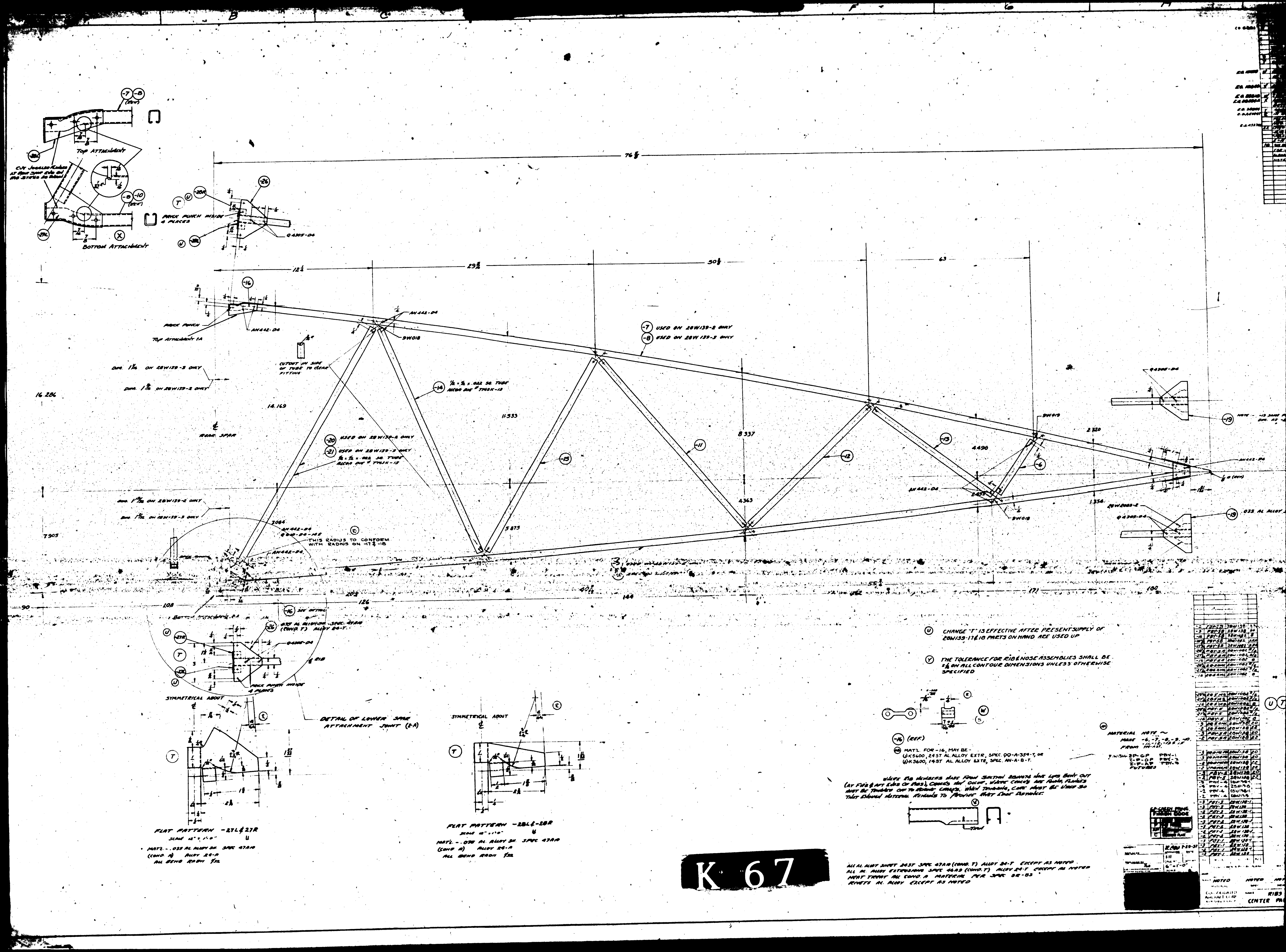
SCALE: NOTED

MAT'L: NOTED — FINISH: NOTED

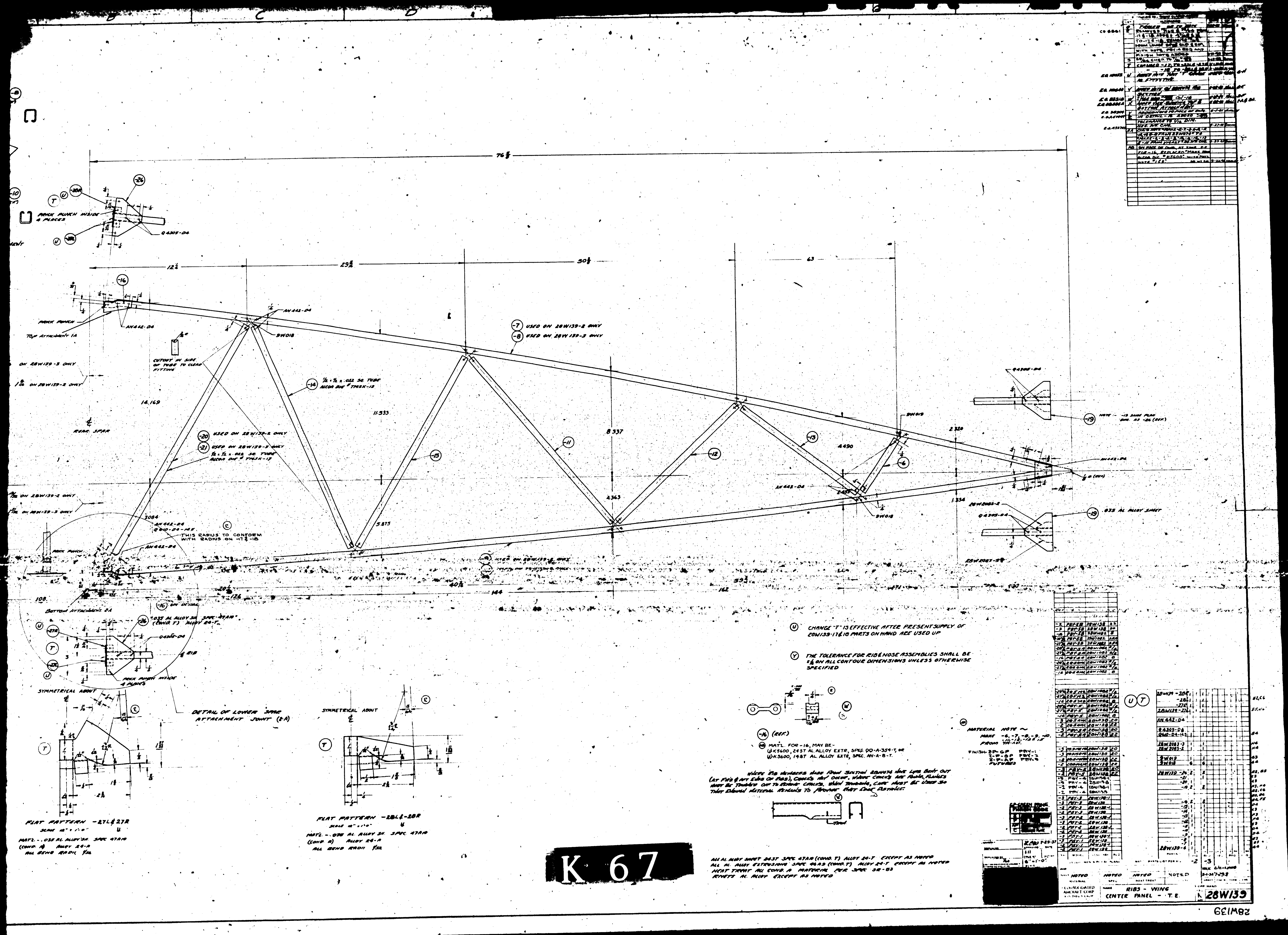
NAME TRAILING EDGE ASSY- WING-CENTER PANEL

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.

K 28W138

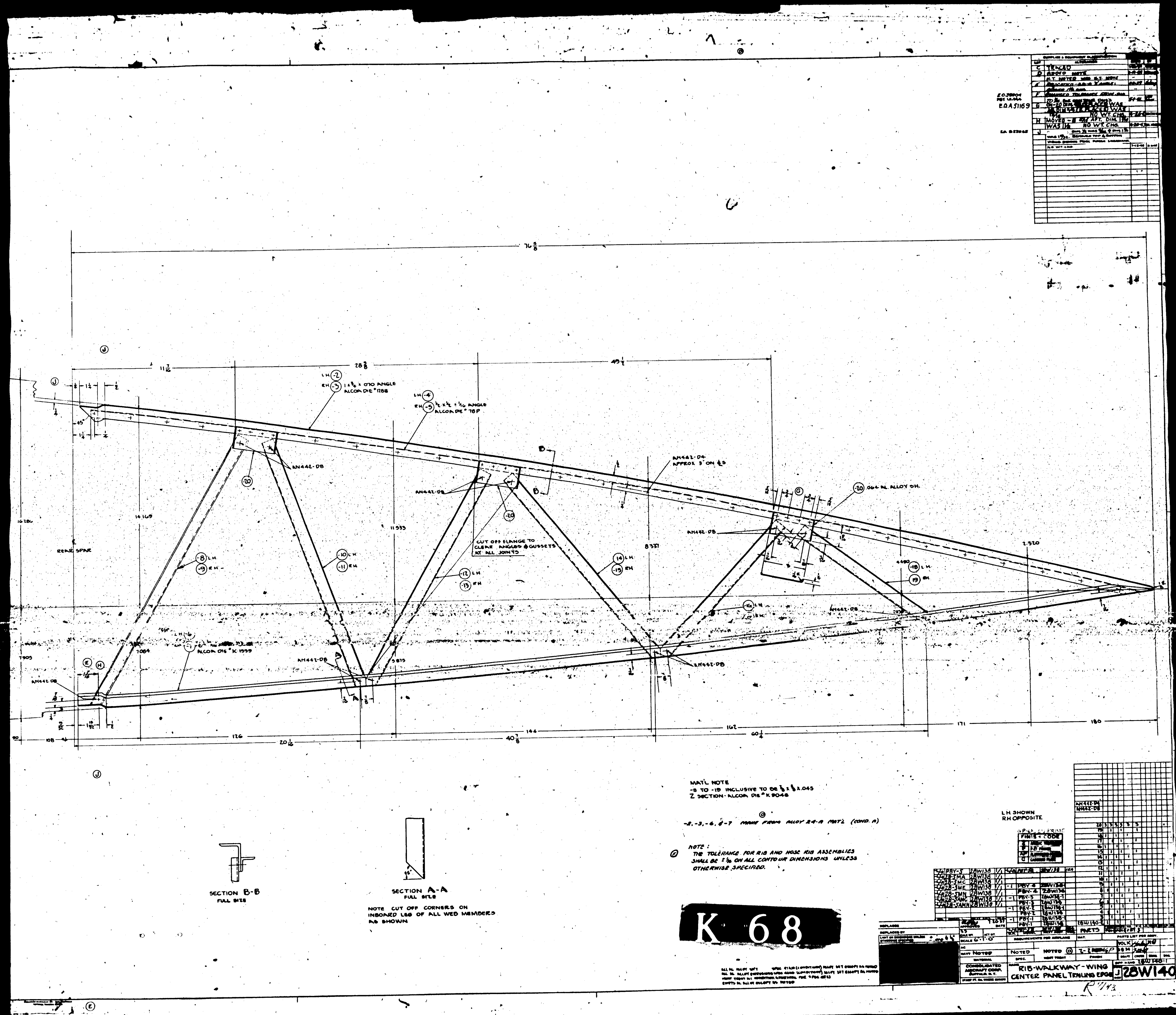


TOP ATTACHMENT
BOTTOM ATTACHMENT
PRICK PUNCH INSIDE 4 PLACES
Q4305-D4
PRICK PUNCH
TOP ATTACHMENT 1A
AN442-D4
SW018
(-7) USED ON 28W139-2 ONLY
(-8) USED ON 28W139-3 ONLY
CUTOUT IN SIDE OF TUBE TO CLEAR FITTING
(-20) USED ON 28W139-2 ONLY
(-21) USED ON 28W139-3 ONLY
SW019
76 5/8
16.286
14.169
11.333
8.337
4.490
2.320
4.363
5.875
7.905
2.084
1.354
THIS RADIUS TO CONFORM WITH RADIUS ON 47 1/2-18
DETAIL OF LOWER SPAR ATTACHMENT JOINT (Z-A)
SYMMETRICAL ABOUT
FLAT PATTERN -27L & 27R
FLAT PATTERN -28L & -28R
CHANGE "T" IS EFFECTIVE AFTER PRESENT SUPPLY OF 28W139-17 & 18 PARTS ON HAND ARE USED UP
THE TOLERANCE FOR RIB & NOSE ASSEMBLIES SHALL BE ±1/32 ON ALL CONTOUR DIMENSIONS UNLESS OTHERWISE SPECIFIED
(-16) (REF.)
MAT'L FOR -16, MAY BE-
(1) K5600, 24ST AL ALLOY EXTR. SPEC. QQ-A-354-T, OR
(2) K3600, 14ST AL ALLOY EXTR. SPEC. AN-A-8-T.
MATERIAL NOTE
K 67

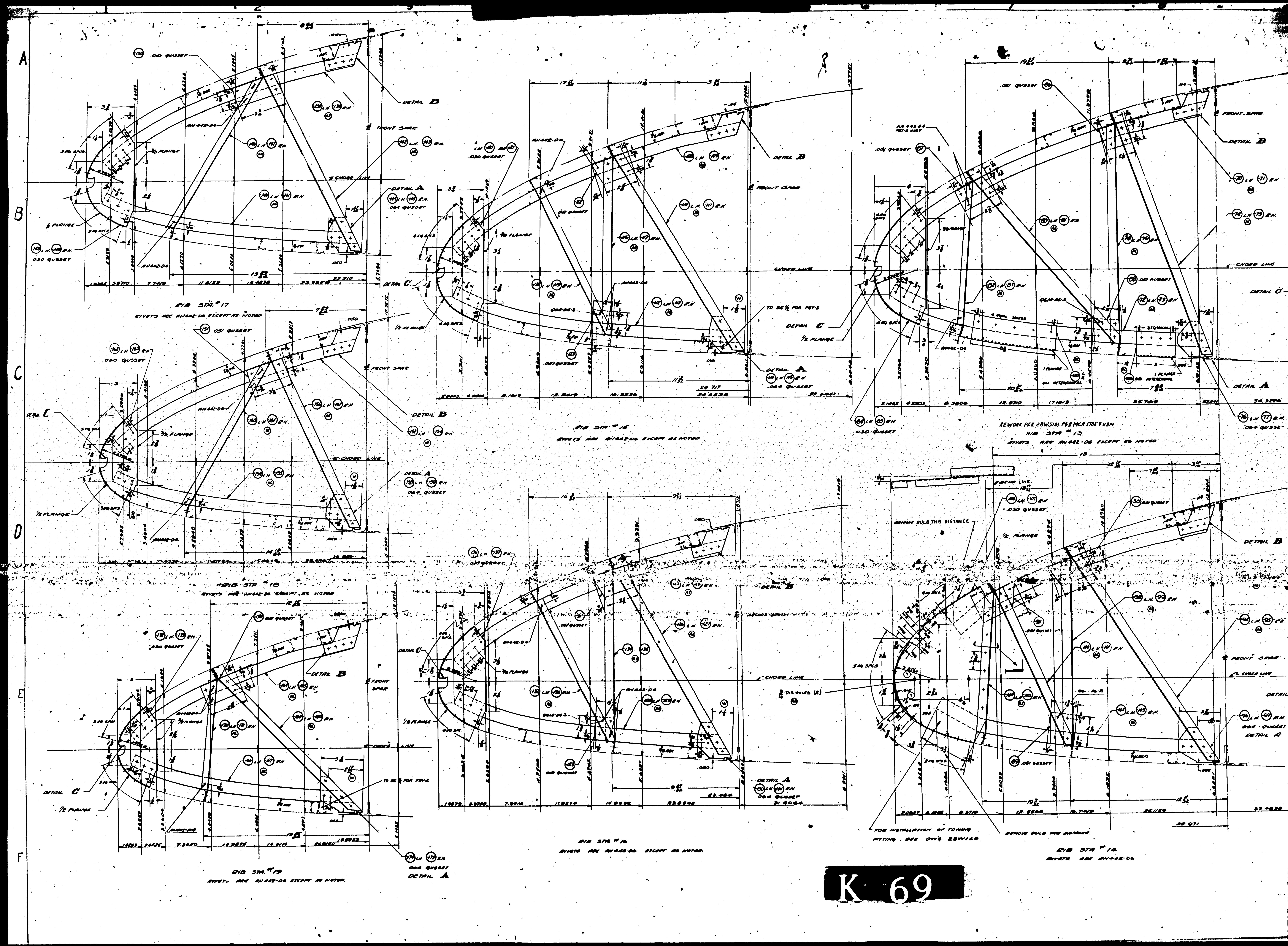


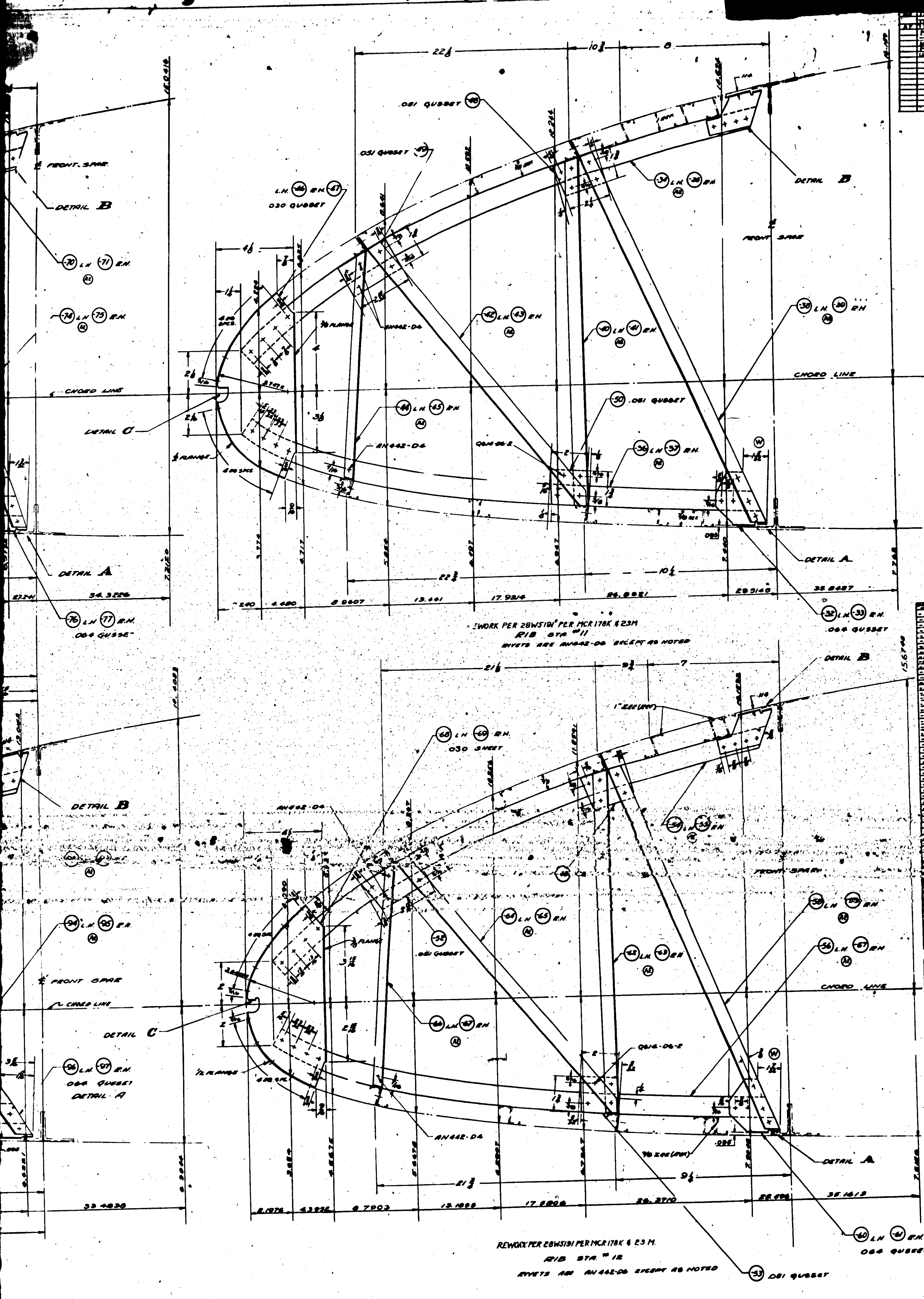
76⅝
12½
29⅝
30⅝
TOP ATTACHMENT 1A
PRICK PUNCH
AN442-04
9W018
-7 USED ON 28W139-2 ONLY
-8 USED ON 28W139-3 ONLY
CUTOUT IN SIDE OF TUBE TO CLEAR FITTING
1/2 x 1/2 x .022 SQ. TUBE ALCOA DIE # TM5K-13
-20 USED ON 28W139-2 ONLY
-21 USED ON 28W139-3 ONLY
14.169
11.533
8.337
4.363
4.490
2.320
1.354
5.875
REAR SPAR
THIS RADIUS TO CONFORM WITH RADIUS ON -17 & -18
BOTTOM ATTACHMENT 2A
DETAIL OF LOWER SPAR ATTACHMENT JOINT (2-A)
SYMMETRICAL ABOUT
FLAT PATTERN -27L & 27R
FLAT PATTERN -28L & 28R
.035 AL ALLOY SHEET
CHANGE "T" IS EFFECTIVE AFTER PRESENT SUPPLY OF 28W139-17 & 18 PARTS ON HAND ARE USED UP
THE TOLERANCE FOR RIB & NOSE ASSEMBLIES SHALL BE ±1/16 ON ALL CONTOUR DIMENSIONS UNLESS OTHERWISE SPECIFIED
-16 (REF)
MAT'L. FOR -16, MAY BE-
(1) K5600, 24ST AL. ALLOY EXTR, SPEC. QQ-A-354-T, OR
(2) K5600, 14ST AL. ALLOY EXTR, SPEC. AN-A-8-T.
MATERIAL NOTE
ALL AL. ALLOY SHEET 24ST SPEC 47A10 (COND. T) ALLOY 24-T EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS SPEC 46A3 (COND. T) ALLOY 24-T EXCEPT AS NOTED
HEAT TREAT ALL COND. A MATERIAL PER SPEC SR-53
RIVETS AL. ALLOY EXCEPT AS NOTED
NOTED
MATERIAL
SPEC
HEAT TREAT
CONSOLIDATED AIRCRAFT CORP
RIBS - WING
CENTER PANEL - T.E.
28W139
6" = 1'-0"

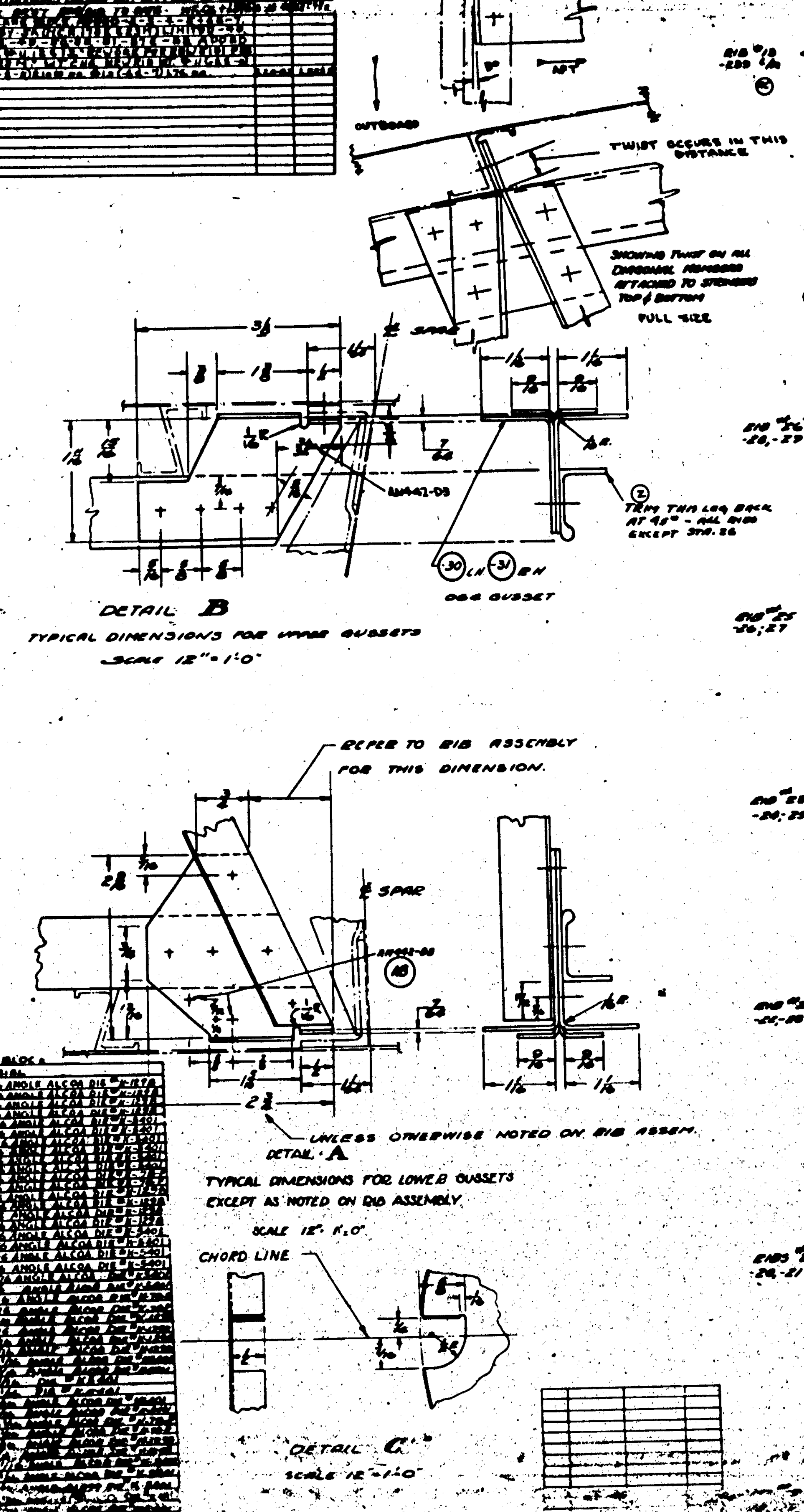
K 67



REAR SPAR
AN442-08
AN442-04
APPROX 3" ON ⅝
.064 AL ALLOY OH.
CUT OFF FLANGE TO CLEAR ANGLES & GUSSETS AT ALL JOINTS
ALCOA DIE # 1188
ALCOA DIE # 78P
ALCOA DIE # K 1599
LH SHOWN
RH OPPOSITE
MAT'L NOTE
-8 TO -19 INCLUSIVE TO BE ⅜ x ⅜ x .045
Z SECTION - ALCOA DIE # K 9048
-2, -3, -6, & -7 MAKE FROM ALLOY 24-A MAT'L (COND. A)
NOTE:
THE TOLERANCE FOR RIB AND NOSE RIB ASSEMBLIES SHALL BE ± 1/16 ON ALL CONTOUR DIMENSIONS UNLESS OTHERWISE SPECIFIED.
SECTION B-B
FULL SIZE
SECTION A-A
FULL SIZE
NOTE CUT OFF CORNERS ON INBOARD LEG OF ALL WEB MEMBERS AS SHOWN
K 68
PBY-5
28-5MA
28-5MC
28-5ME
28-5MN
28-5AMC
28-5AMN
28W138
PBY-4
PBY-3
PBY-2
PBY-1
28W140-1
PARTS
REPLACES
REPLACED BY
APPROVED
DATE
SCALE 6"-1'-0"
NAVY NOTED
MATERIAL
NOTED
SPEC.
HEAT TREAT
FINISH
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY.
VOLK
CONSOLIDATED AIRCRAFT CORP.
BUFFALO, N.Y.
RIB-WALKWAY-WING
CENTER PANEL TRAILING EDGE
J
28W140


RIB STA. #17
RIVETS ARE AN442-D6 EXCEPT AS NOTED
RIB STA #15
RIVETS ARE AN442-D6 EXCEPT AS NOTED
REWORK PER 28WS191 PER MCR 178K & 23M
RIB STA #13
RIVETS ARE AN442-D6 EXCEPT AS NOTED
RIB STA #18
RIVETS ARE AN442-D6 EXCEPT AS NOTED
RIB STA #19
RIVETS ARE AN442-D6 EXCEPT AS NOTED
RIB STA #16
RIVETS ARE AN442-D6 EXCEPT AS NOTED
RIB STA #14
RIVETS ARE AN442-D6
FOR INSTALLATION OF TOWING FITTING SEE DWG 28W169
REMOVE BULB THIS DISTANCE
DETAIL A
DETAIL B
DETAIL C
CHORD LINE
FRONT SPAR
K 69





* AS PER NEXT ASSY

NOTE:
MATERIAL-
- ALL FLAT GUSSETS ARE AL ALLOY SHEET SPEC. #47A10 CONDITION "T" (ALLOY 24T).
ALL FLANGED GUSSETS ARE AL ALLOY SHEET SPEC #47A10 CONDITION "A" (ALLOY 24A).

SEE RELEASE BOOKS FOR FURTHER RELEASES

ALL AL ALLOY SHEET 24ST SPEC 47A10 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
ALL AL ALLOY EXTRUSIONS SPEC 46A9 (CONDITION T) ALLOY 24T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION A MATERIAL PER SPEC. 6R53
RIVETS AL ALLOY EXCEPT AS NOTED

FINISH:
Z-P-GP PBY-2 & FUTURE
Z-P-GP ALL PARTS. PBY-1
L.H. PARTS SHOWN. R.H. PARTS OPPOSITE.
PRICK PUNCH ALL NOSE GUSSETS FOR SKIN RIVET LOCATIONS, AS NOTED.
L.H. RIBS SHOWN. R.H. RIBS OPPOSITE.
NOTE:-
RIVET EACH PAIR OF GUSSETS WITH (2) AN442-D3
RIVETS I.E. -32,-33,-60,-61,-76,-77,-96,-97,-114,-115,-130,-131,
-144,-145,-158,-159,-174,-175,-184,-185,-196,-197,-209,-210,-219,-220.

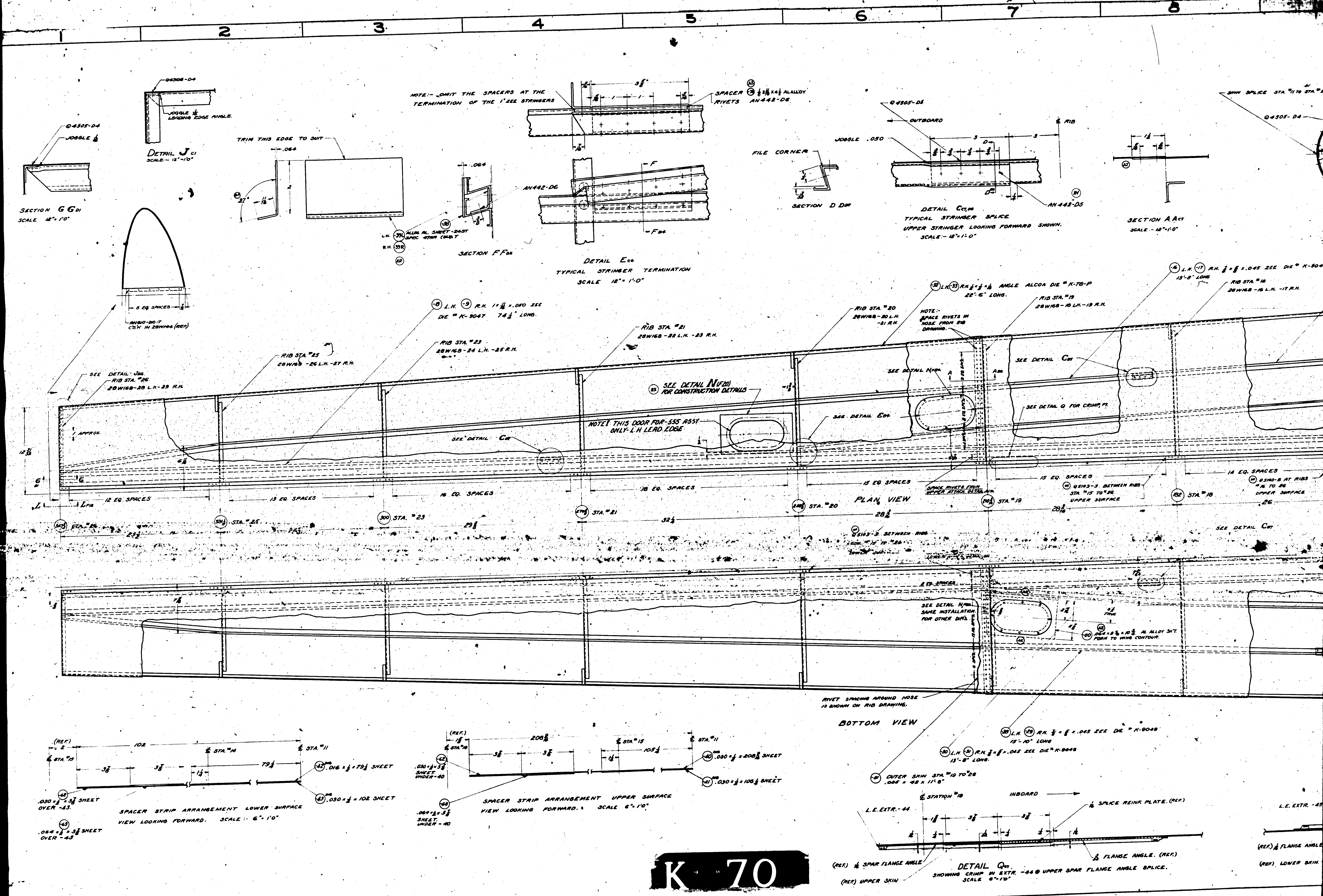
SHEET #1 OF TWO SHEETS

BILL OF MATERIAL APPLIES TO #2 SHEET ALSO

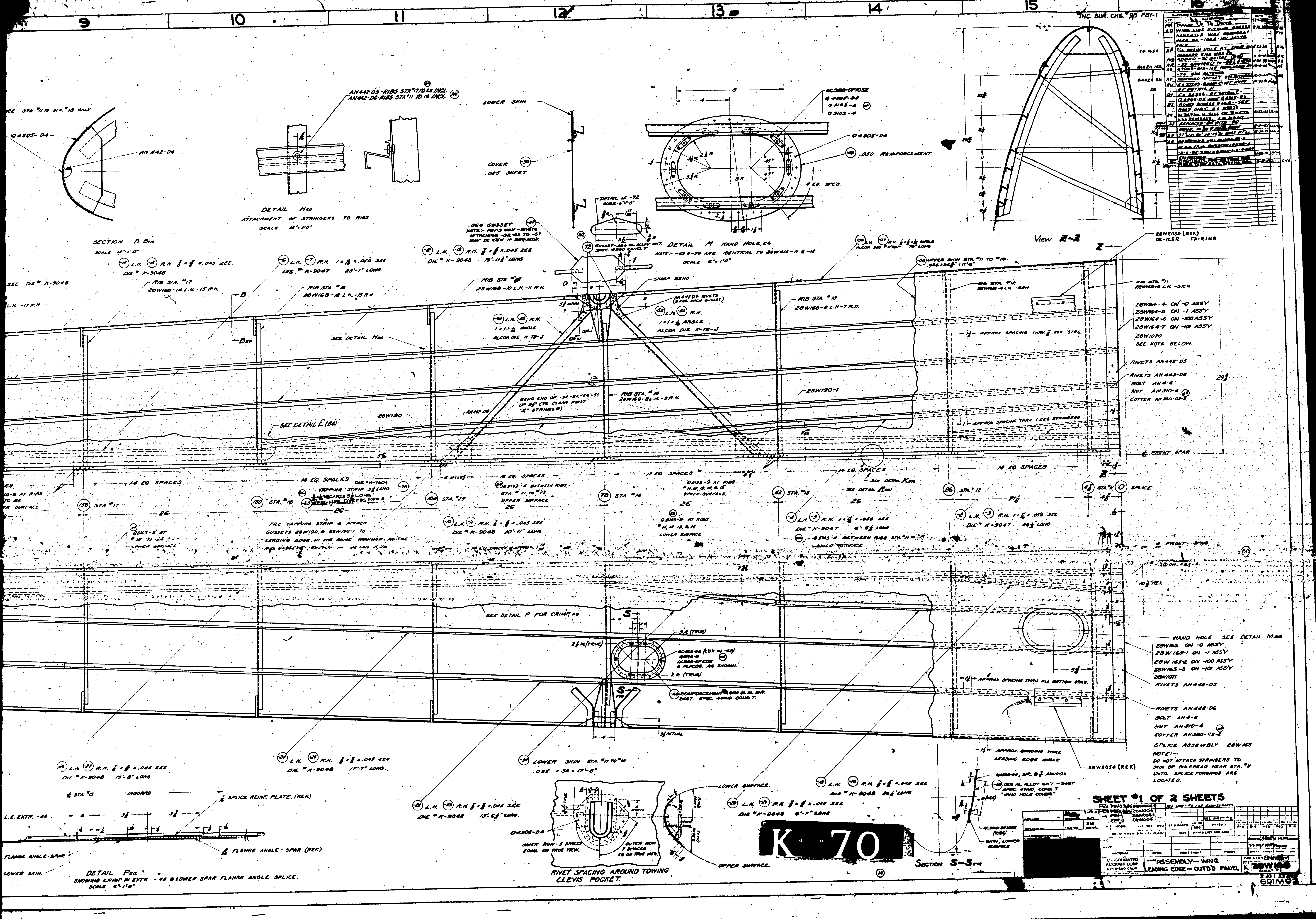
K 69

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE
GP	GREEN PRIME

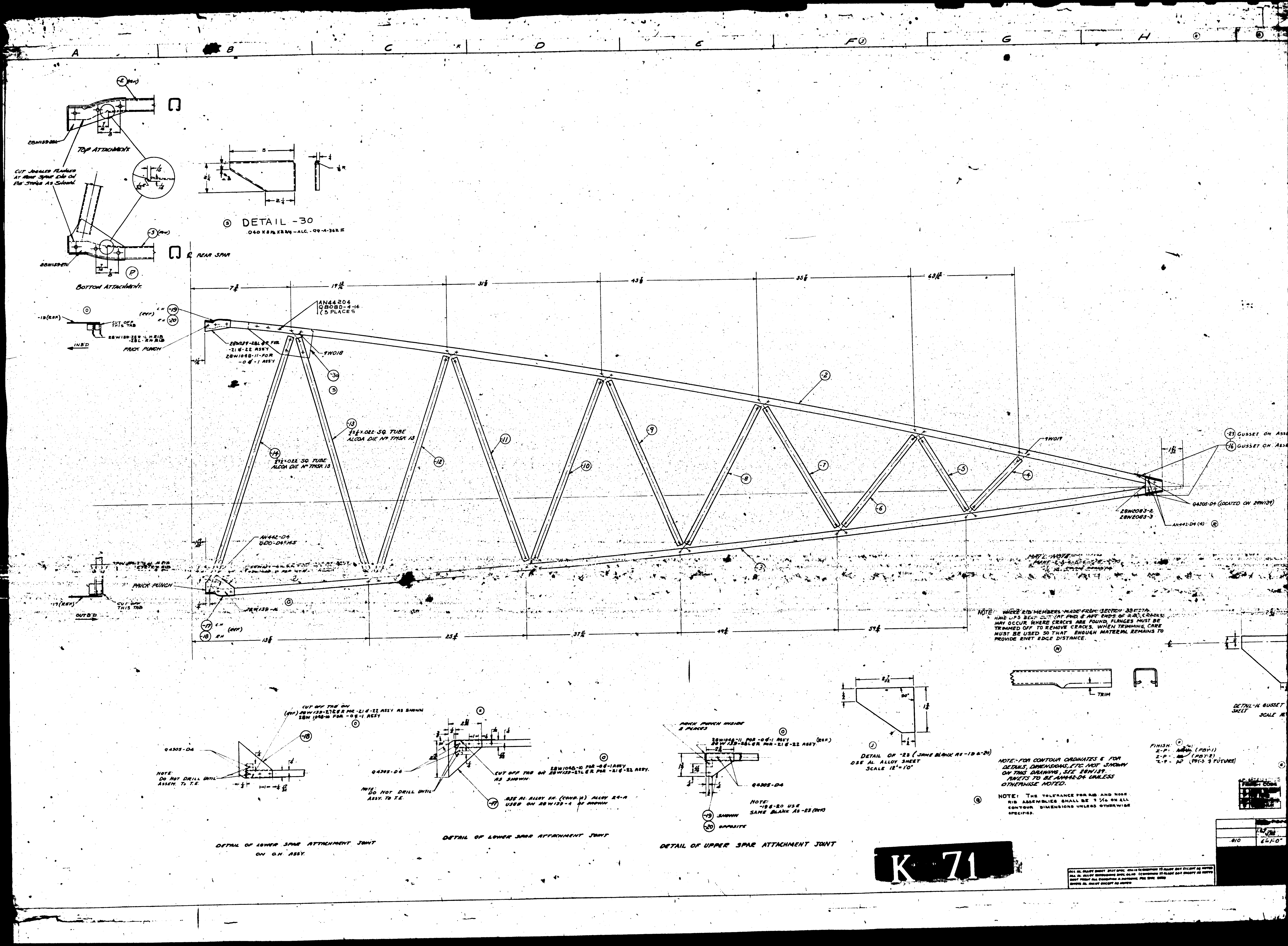
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.
RIBS WING LEADING EDGE OUTER PANEL
28W16A



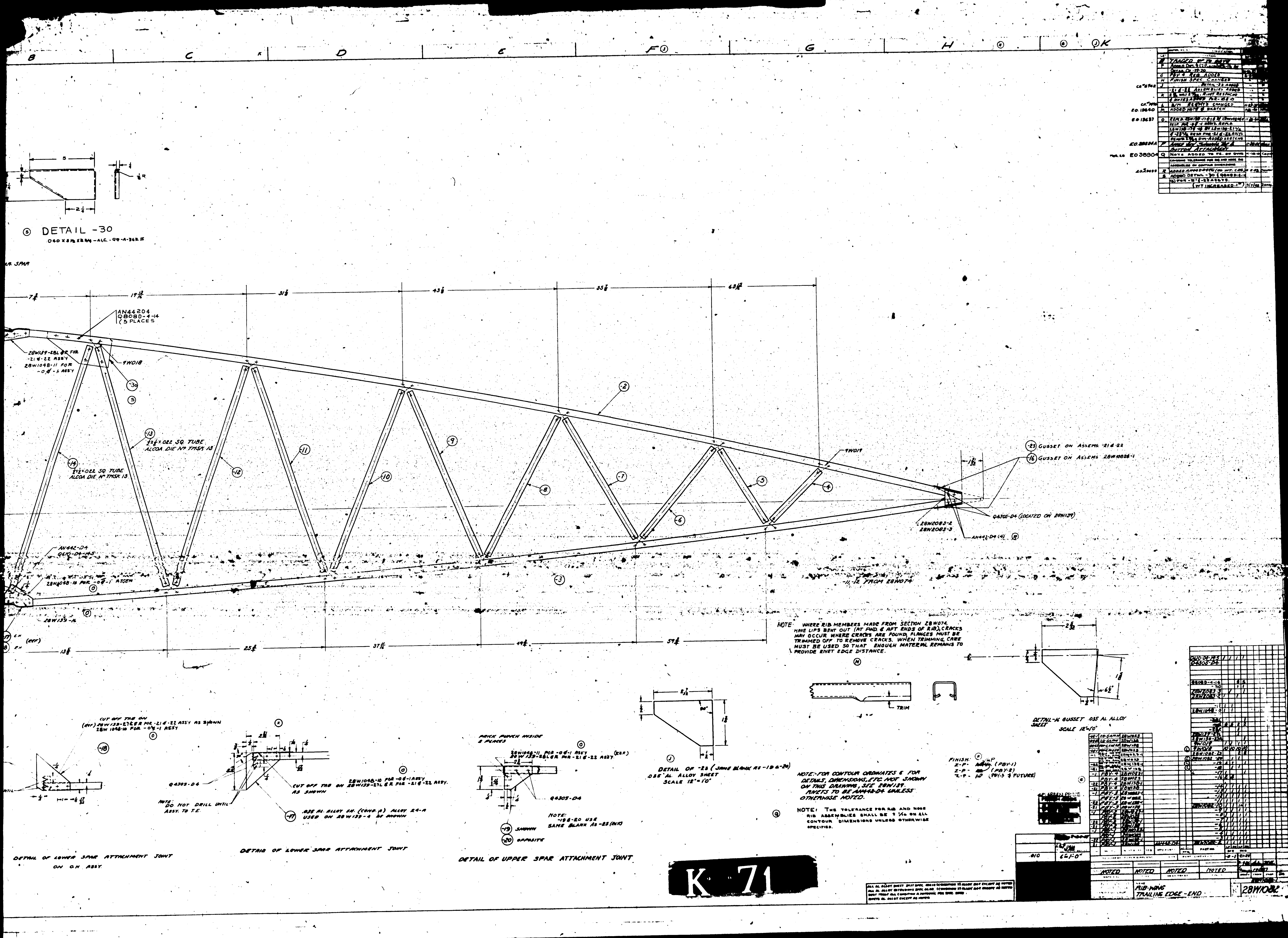
K 70



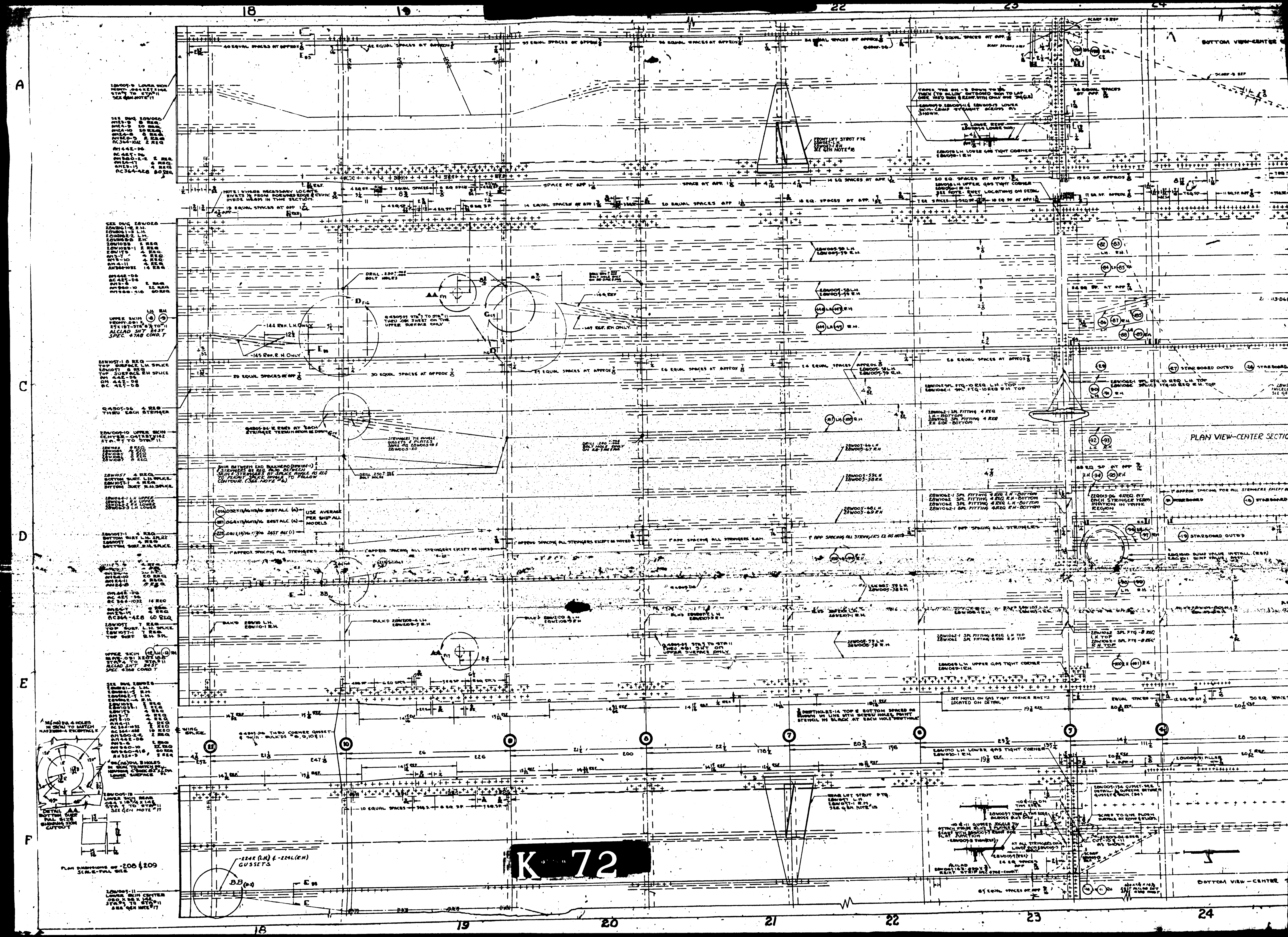
9
10
11
12
13
14
15
16
INC. BUR. CHG. 20 PBY-1
DETAIL H
ATTACHMENT OF STRINGERS TO RIBS
SCALE 12"-1'0"
SECTION B
AN442-D5-RIBS STA. 17 TO 18 INCL.
AN442-D6-RIBS STA. 11 TO 16 INCL.
LOWER SKIN
COVER
.025 SHEET
.050 REINFORCEMENT
DETAIL M HAND HOLE
VIEW Z-Z
28W2050 (REF.)
DE-ICER FAIRING
28W164-4 ON -0 ASSY
28W164-5 ON -1 ASSY
28W164-6 ON -100 ASSY
28W164-7 ON -101 ASSY
28W1070
SEE NOTE BELOW.
RIVETS AN442-D5
RIVETS AN442-D6
BOLT AN4-6
NUT AN310-4
COTTER AN380-C2-2
SEE DETAIL E (B4)
SEE DETAIL H
28W190
28W190-1
RIB STA. 13
RIB STA. 14
RIB STA. 16
RIB STA. 17
14 EQ. SPACES
12 EQ. SPACES
STA. 17
STA. 16
STA. 15
STA. 14
STA. 13
STA. 12
SPLICE
FRONT SPAR
SEE DETAIL P FOR CRIMP
HAND HOLE SEE DETAIL M
28W165 ON -0 ASSY
28W165-1 ON -1 ASSY
28W165-2 ON -100 ASSY
28W165-3 ON -101 ASSY
28W1071
RIVETS AN442-D5
RIVETS AN442-D6
BOLT AN4-6
NUT AN310-4
COTTER AN380-C2-2
SPLICE ASSEMBLY 28W163
NOTE:--
DO NOT ATTACH STRINGERS TO SKIN OR BULKHEAD NEAR STA. 11 UNTIL SPLICE FORGINGS ARE LOCATED.
28W2050 (REF.)
LOWER SKIN STA. 11 TO 18
.025 x 38 x 17'-8"
LOWER SURFACE
UPPER SURFACE
RIVET SPACING AROUND TOWING CLEVIS POCKET.
INNER ROW-5 SPACES EQUAL ON TRUE VIEW.
OUTER ROW 7 SPACES EQ. ON TRUE VIEW.
SECTION S-S
DETAIL P
SHOWING CRIMP IN EXTR. -45 & LOWER SPAR FLANGE ANGLE SPLICE.
SCALE 6"-1'0"
L.E. EXTR. -45
FLANGE ANGLE-SPAR
LOWER SKIN
SPLICE REINF. PLATE. (REF.)
FLANGE ANGLE - SPAR (REF.)
SHEET #1 OF 2 SHEETS
CONSOLIDATED AIRCRAFT CORP.
ASSEMBLY—WING
LEADING EDGE—OUTB'D PANEL
28W169
K 70

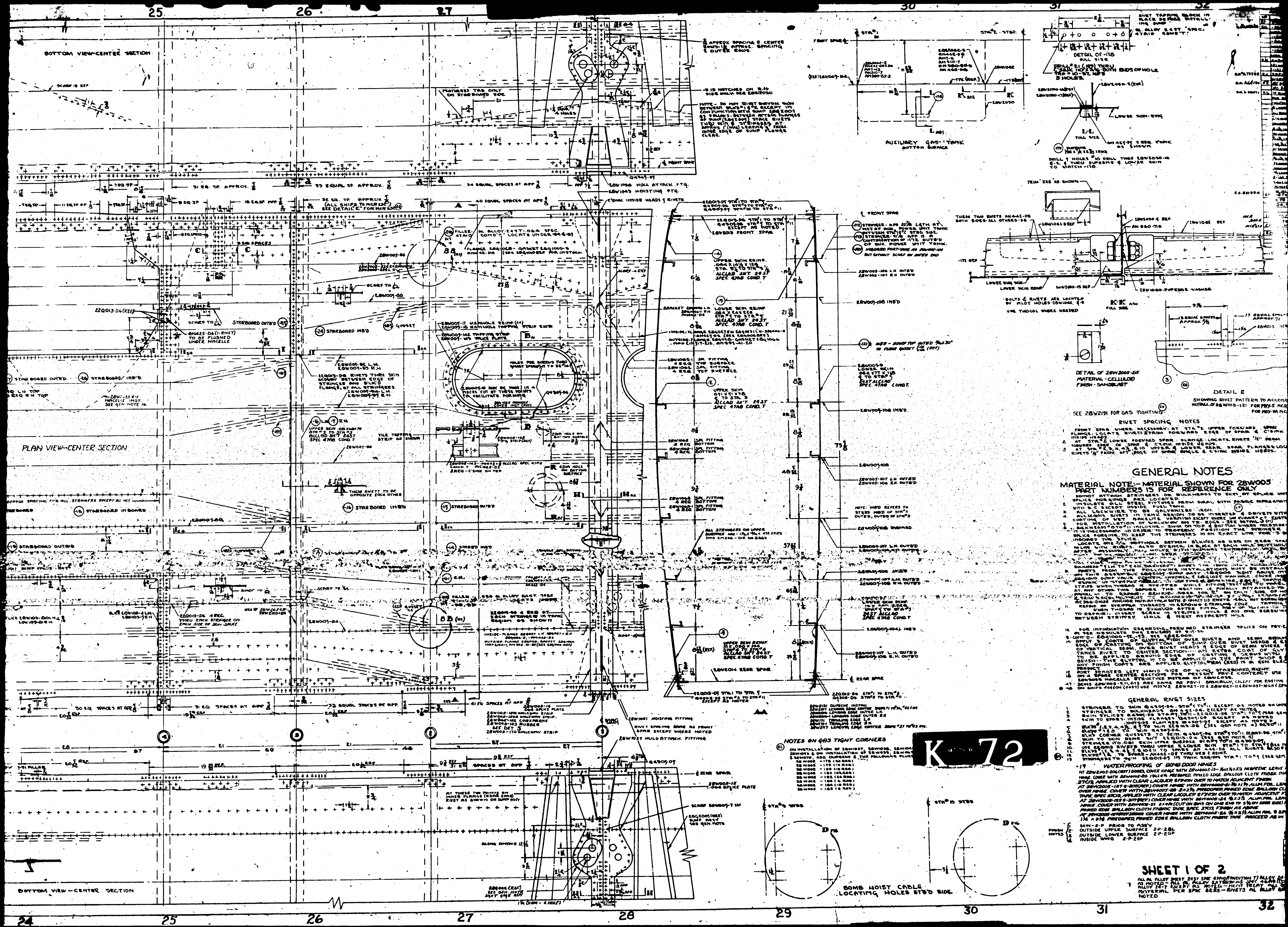


A
B
C
D
E
F
G
H
TOP ATTACHMENT
CUT JOGGLED FLANGES AT REAR SPAR END ON RIB STRIPS AS SHOWN.
BOTTOM ATTACHMENT.
℄ REAR SPAR
DETAIL -30
AN44204
Q808D-4-14
(5 PLACES
9W018
9W019
PRICK PUNCH
CUT OFF THIS TAB
INB'D
OUTB'D
2 1/2 X .022 SQ. TUBE ALCOA DIE Nº TMSK 13
AN442-D4
Q4305-D4 (LOCATED ON 28W139)
28W2083-2
28W2083-3
GUSSET ON ASSY
NOTE: WHERE RIB MEMBERS MADE FROM SECTION 33... MAY OCCUR. WHERE CRACKS ARE FOUND, FLANGES MUST BE TRIMMED OFF TO REMOVE CRACKS. WHEN TRIMMING, CARE MUST BE USED SO THAT ENOUGH MATERIAL REMAINS TO PROVIDE RIVET EDGE DISTANCE.
TRIM
DETAIL OF -23 (SAME BLANK AS -19 & -20)
.025 AL ALLOY SHEET
SCALE 12"=1'0"
NOTE:- FOR CONTOUR ORDINATES & FOR DETAILS, DIMENSIONS, ETC NOT SHOWN ON THIS DRAWING, SEE 28W139. RIVETS TO BE AN442-D4 UNLESS OTHERWISE NOTED.
NOTE: THE TOLERANCE FOR RIB AND NOSE RIB ASSEMBLIES SHALL BE ± 1/16 ON ALL CONTOUR DIMENSIONS UNLESS OTHERWISE SPECIFIED.
NOTE: DO NOT DRILL UNTIL ASSEM. TO T.E.
NOTE: DO NOT DRILL UNTIL ASSY. TO T.E.
CUT OFF THE TAB ON 28W1048-10 FOR -4 & -1 ASSY ON 28W139-27 L & R FOR -21 & -22 ASSY. AS SHOWN.
.032 AL ALLOY SH. (COND. A) ALLOY 24-A USED ON 28W139-4 AS SHOWN
PRICK PUNCH INSIDE 2 PLACES
NOTE: -19 & -20 USE SAME BLANK AS -23 (REF)
-19 SHOWN
-20 OPPOSITE
DETAIL OF LOWER SPAR ATTACHMENT JOINT ON O.H. ASSY.
DETAIL OF LOWER SPAR ATTACHMENT JOINT
DETAIL OF UPPER SPAR ATTACHMENT JOINT
FINISH:
(PBY-1)
(PBY-2)
(PBY-3 & FUTURE)
DETAIL -16 GUSSET
K 71

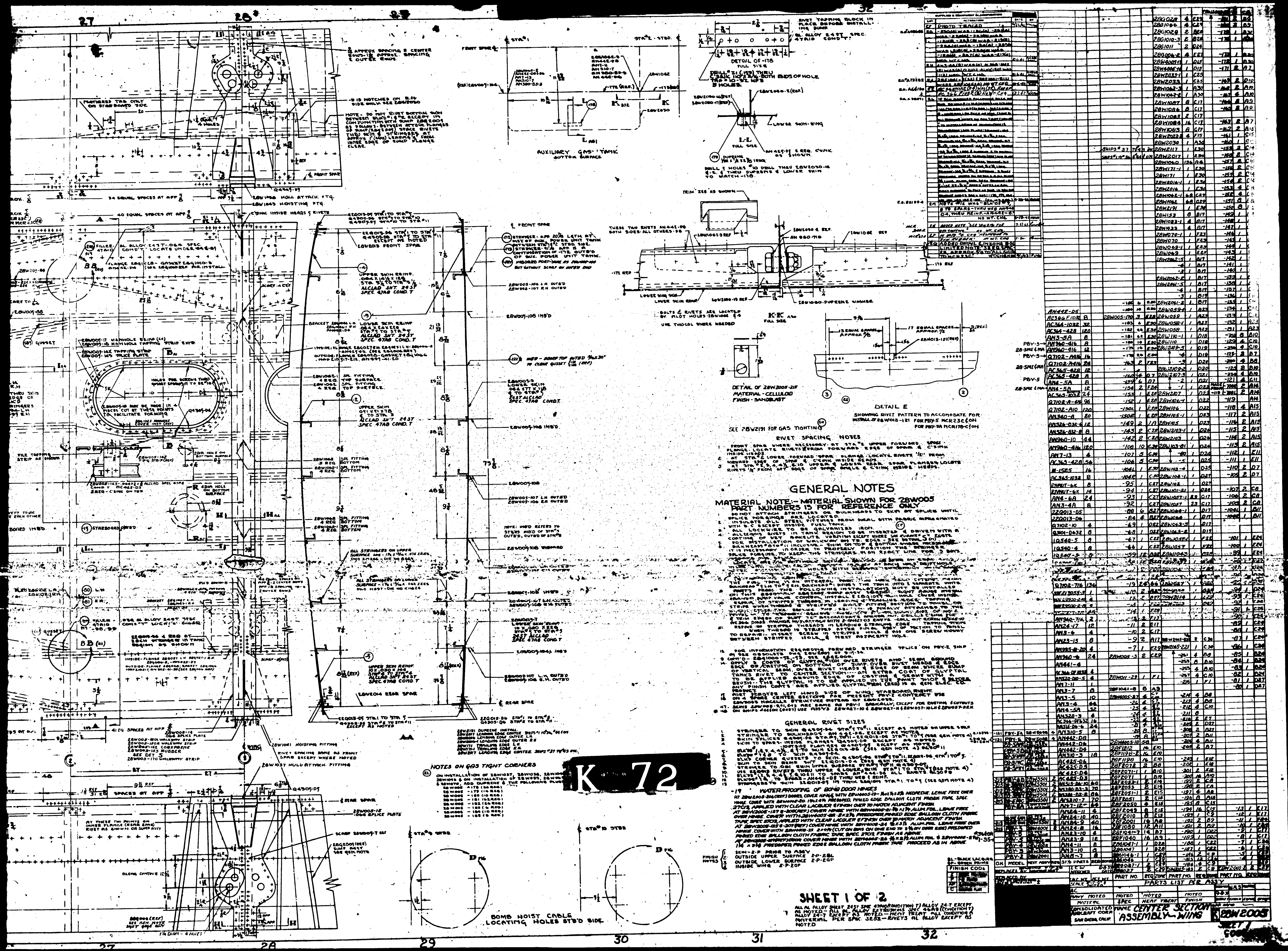


DETAIL -30
AN44204
Q8080-4-14
(5 PLACES)
9W018
9W019
½ x ½ x .022 SQ. TUBE ALCOA DIE No 7MSK 13
-23 GUSSET ON ASSEMS -21 & 22
-16 GUSSET ON ASSEMS 28W1082B-1
28W2083-2
28W2083-3
-11,-12 FROM 28W074
NOTE: WHERE RIB MEMBERS MADE FROM SECTION 28W074, HAVE LIPS BENT OUT (AT FWD. & AFT ENDS OF RIB), CRACKS MAY OCCUR WHERE CRACKS ARE FOUND, FLANGES MUST BE TRIMMED OFF TO REMOVE CRACKS. WHEN TRIMMING, CARE MUST BE USED SO THAT ENOUGH MATERIAL REMAINS TO PROVIDE RIVET EDGE DISTANCE.
TRIM
DETAIL -16 GUSSET .035 AL ALLOY SHEET SCALE 12"=1'0"
DETAIL OF -23 (SAME BLANK AS -19 & -20) .035 AL ALLOY SHEET SCALE 12"=1'0"
NOTE:- FOR CONTOUR ORDINATES & FOR DETAILS, DIMENSIONS, ETC. NOT SHOWN ON THIS DRAWING, SEE 28W139. RIVETS TO BE AN442AD4 UNLESS OTHERWISE NOTED.
NOTE: THE TOLERANCE FOR RIB AND NOSE RIB ASSEMBLIES SHALL BE ± 1/16 ON ALL CONTOUR DIMENSIONS UNLESS OTHERWISE SPECIFIED.
Q4305-D4
NOTE: DO NOT DRILL UNTIL ASSY. TO T.E.
.035 AL ALLOY SH. (COND. A) ALLOY 24-A USED ON 28W139-4 AS SHOWN
-19 SHOWN
-20 OPPOSITE
DETAIL OF LOWER SPAR ATTACHMENT JOINT ON O.H. ASSY.
DETAIL OF LOWER SPAR ATTACHMENT JOINT
DETAIL OF UPPER SPAR ATTACHMENT JOINT
RIB-WING TRAILING EDGE-END
28W1082
K 71

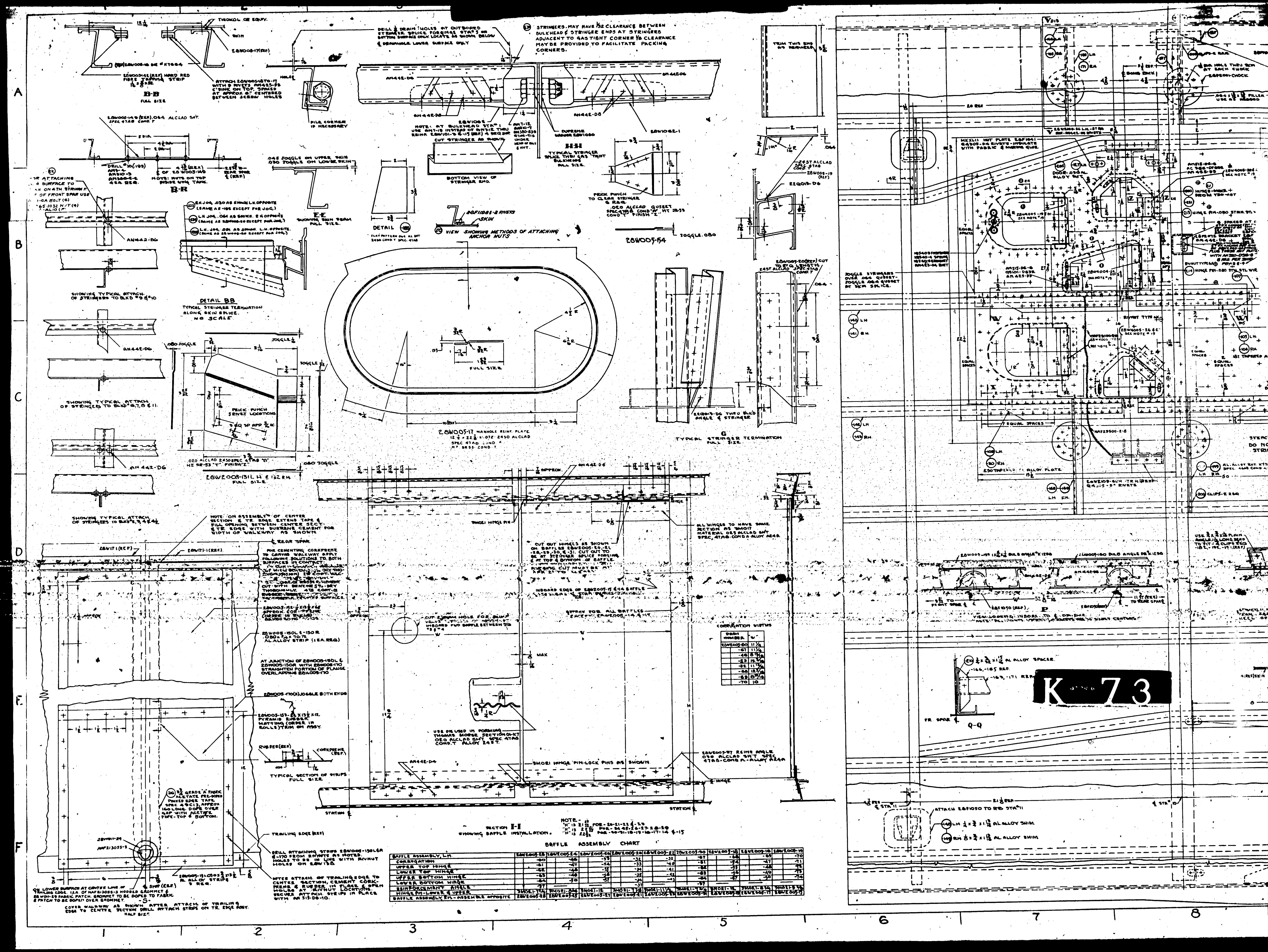

PLAN VIEW-CENTER SECTION
BOTTOM VIEW-CENTER
K 72
18
19
20
21
22
23
24
A
C
D
E
F



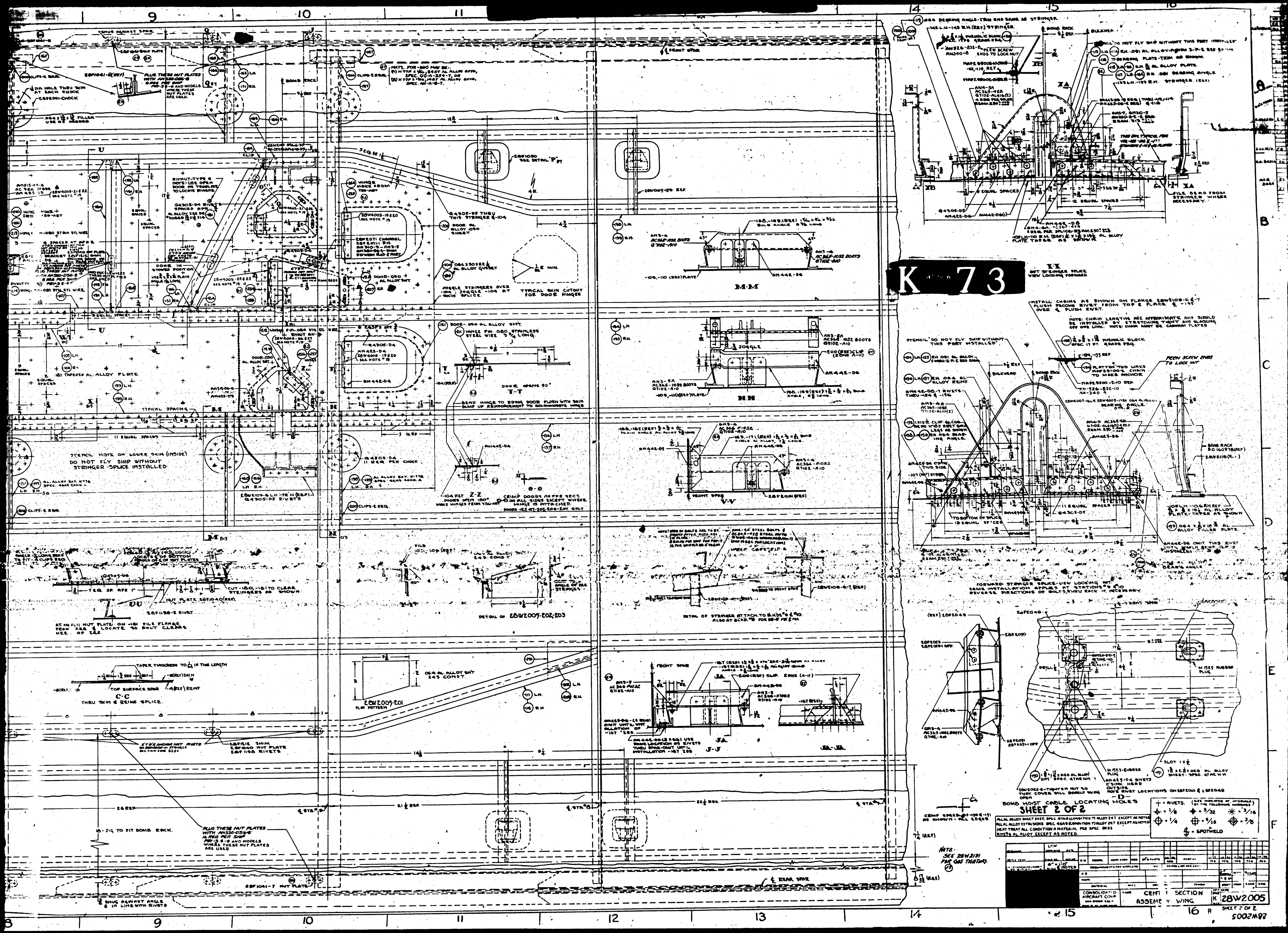
BOTTOM VIEW-CENTER SECTION
PLAN VIEW-CENTER SECTION
AUXILIARY GAS-TANK BOTTOM SURFACE
DETAIL OF 28W2005-215
MATERIAL-CELLULOID
FINISH-SANDBLAST
DETAIL E
SEE 28W2191 FOR GAS TIGHTING
RIVET SPACING NOTES
GENERAL NOTES
MATERIAL NOTE:- MATERIAL SHOWN FOR 28W005 PART NUMBERS IS FOR REFERENCE ONLY
GENERAL RIVET SIZES
WATERPROOFING OF BOMB DOOR HINGES
NOTES ON GAS TIGHT CORNERS
K 72
BOMB HOIST CABLE LOCATING HOLES STB'D SIDE.
SHEET 1 OF 2

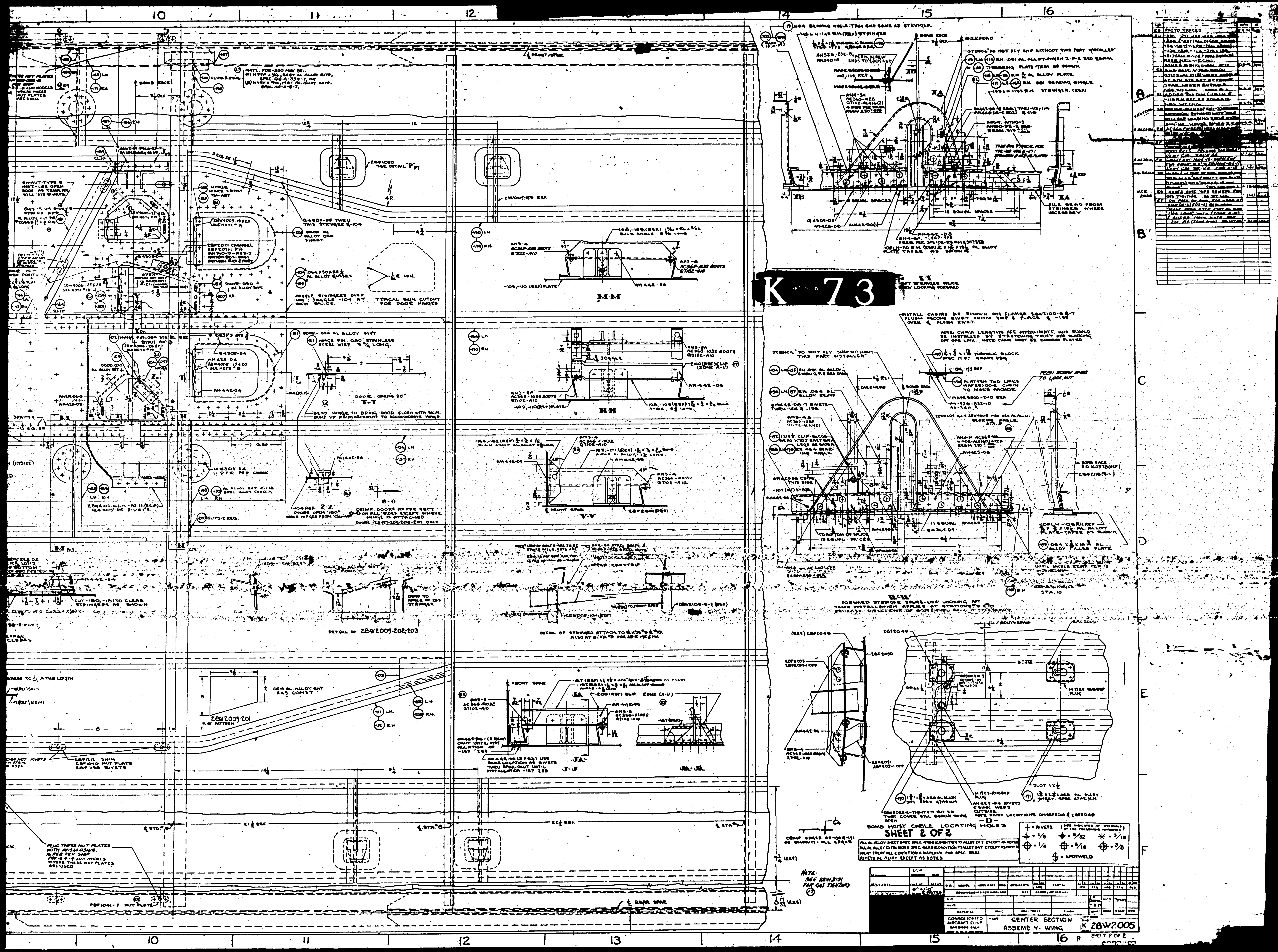


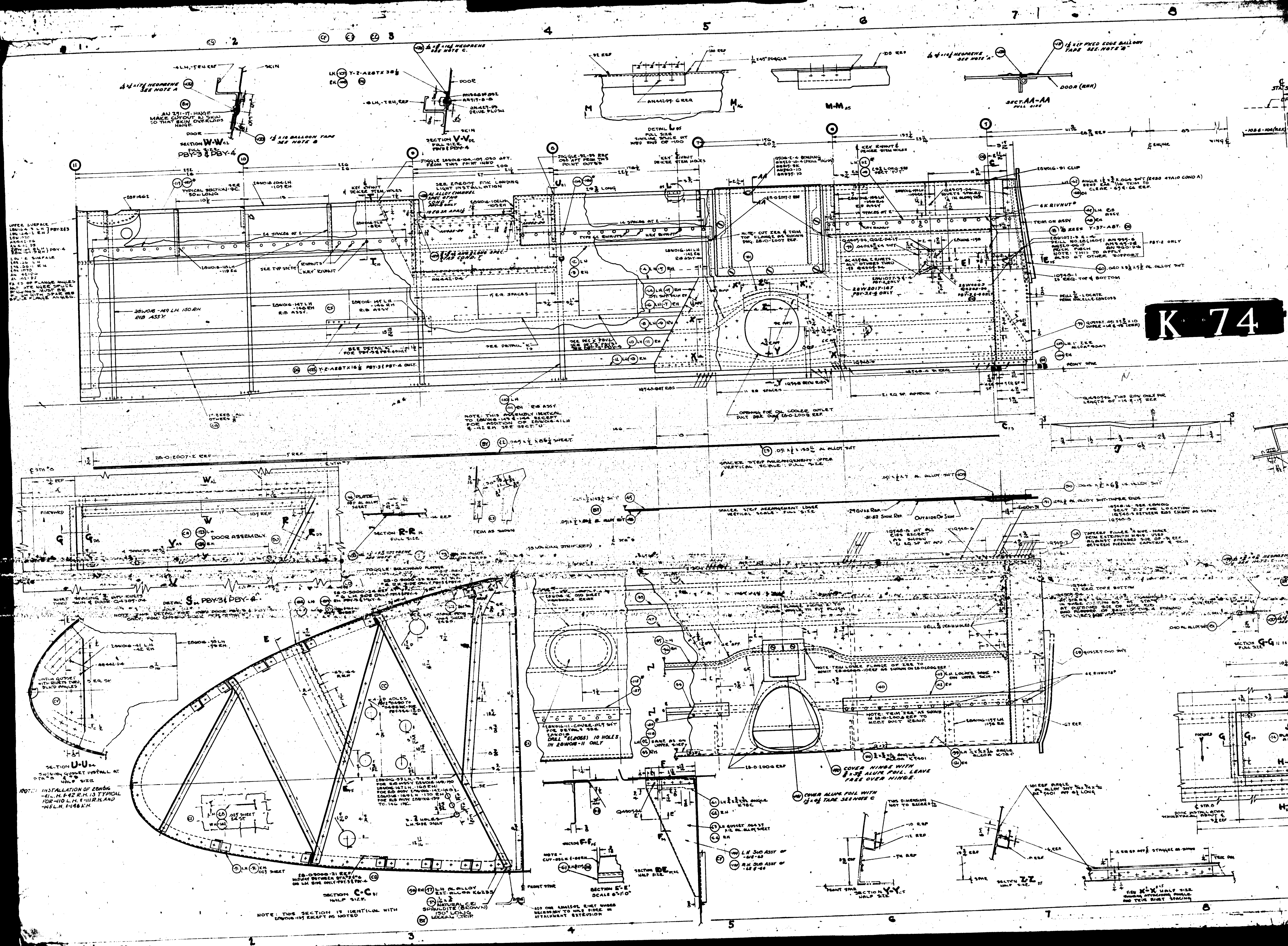
AUXILIARY GAS TANK
BOTTOM SURFACE
DETAIL OF 28W2005-215
MATERIAL - CELLULOID
FINISH - SANDBLAST
DETAIL E
SEE 28W2191 FOR GAS TIGHTING
RIVET SPACING NOTES
GENERAL NOTES
MATERIAL NOTE:- MATERIAL SHOWN FOR 28W005 PART NUMBERS IS FOR REFERENCE ONLY
GENERAL RIVET SIZES
NOTES ON GAS TIGHT CORNERS
K-K
L-L
A-A
K 72
BOMB HOIST CABLE LOCATING HOLES STB'D SIDE
SHEET 1 OF 2
PARTS LIST PER ASSY
CONSOLIDATED AIRCRAFT CORP.
SAN DIEGO, CALIF.
CENTER SECTION ASSEMBLY - WING
28W2005

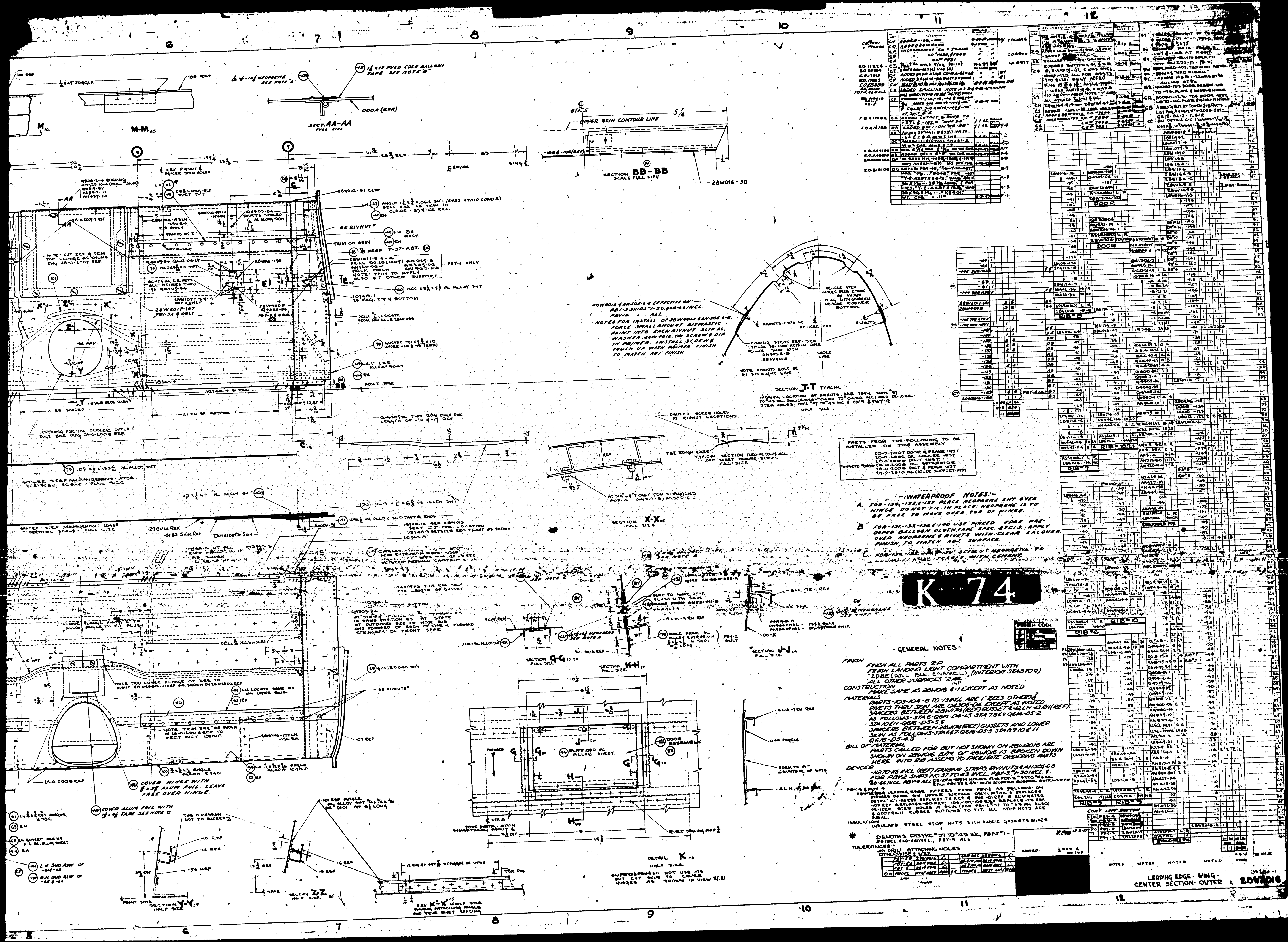


B-B
FULL SIZE
B-R
E-E
SHOWING SKIN SEAM
FULL SIZE
H-H
TYPICAL STRINGER SPLICE THRU GAS TIGHT BULKHEAD
FULL SIZE
DETAIL BB
TYPICAL STRINGER TERMINATION ALONG SKIN SPLICE.
NO SCALE
VIEW SHOWING METHODS OF ATTACHING ANCHOR NUTS
SHOWING TYPICAL ATTACH. OF STRINGERS TO BLKD
28W005-17 MANHOLE REINF. PLATE
FULL SIZE
28W005-154
TOGGLE .080
G
TYPICAL STRINGER TERMINATION
FULL SIZE
28W008-131 L.H. & 132 R.H.
FULL SIZE
TYPICAL SECTION OF STRIPS
FULL SIZE
SECTION I-I
SHOWING BAFFLE INSTALLATION.
BAFFLE ASSEMBLY CHART
CORRUGATION WIDTHS
Q-Q
P
K 73
A
B
C
D
E
F
1
2
3
4
5
6
7
8

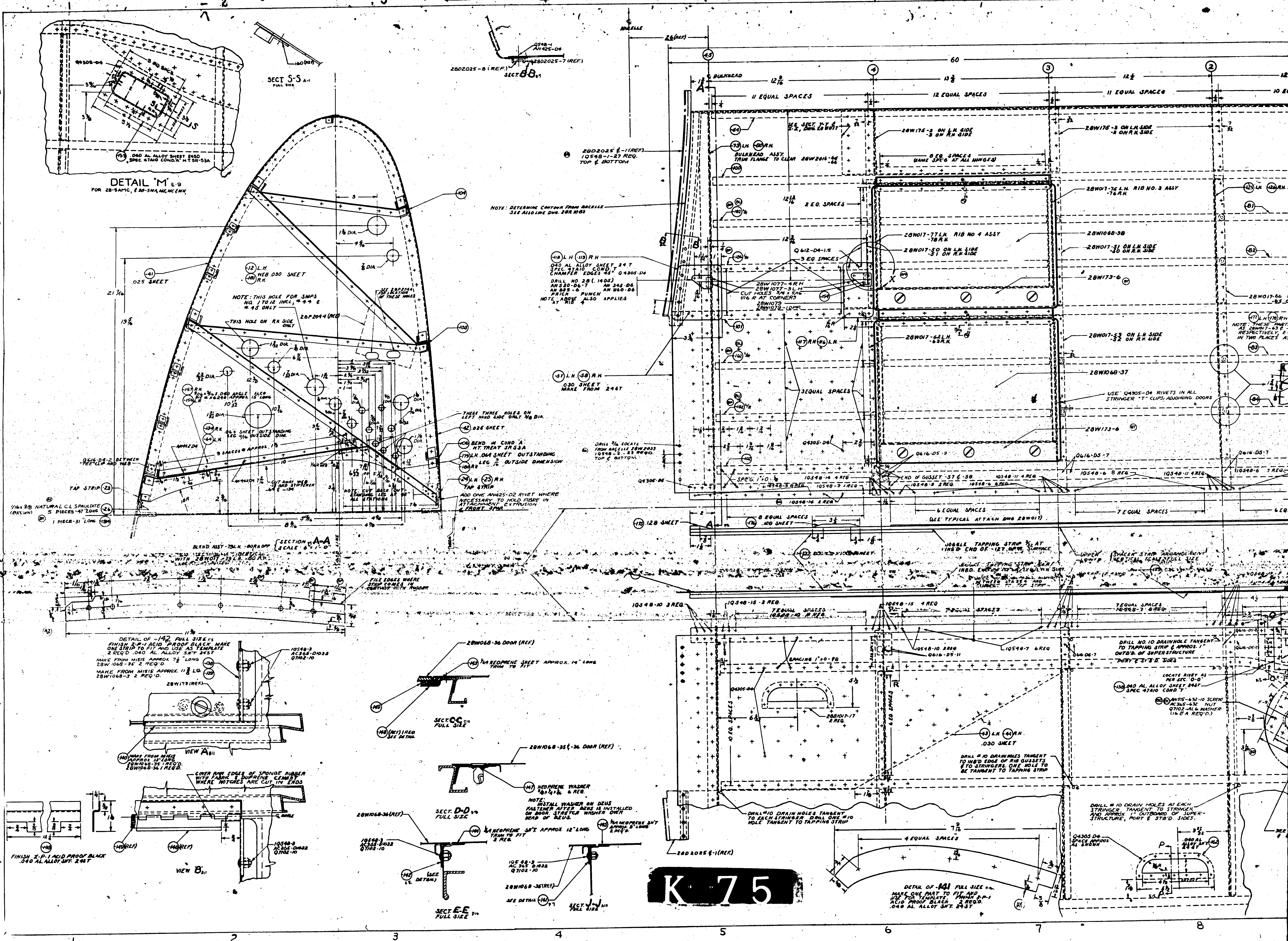

K 73
M-M
N-N
V-V
T-T
Z-Z
J-J
JA-JA
C-C
X-X
SKT STRINGER SPLICE VIEW LOOKING FORWARD
FORWARD STRINGER SPLICE-VIEW LOOKING AFT
DETAIL OF 28W2005-202-203
TYPICAL SKIN CUTOUT FOR DOOR HINGES
STENCIL NOTE ON LOWER SKIN (INSIDE)
DO NOT FLY SHIP WITHOUT STRINGER SPLICE INSTALLED
-D-
BOMB HOIST CABLE LOCATING HOLES
SHEET 2 OF 2
NOTE: SEE 28W2131 FOR GAS TIGHTING
CENTER SECTION ASSEMBLY WING
28W2005
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.
FRONT SPAR
REAR SPAR


K 73
M-M
N-N
T-T
Z-Z
V-V
J-J
X-X
W-W
SHEET 2 OF 2
BOMB HOIST CABLE LOCATING HOLES
TYPICAL SKIN CUTOUT FOR DOOR HINGES
DETAIL OF 28W2005-202-203
CONSOLIDATED AIRCRAFT CORP
CENTER SECTION ASSEMBLY - WING
28W2005

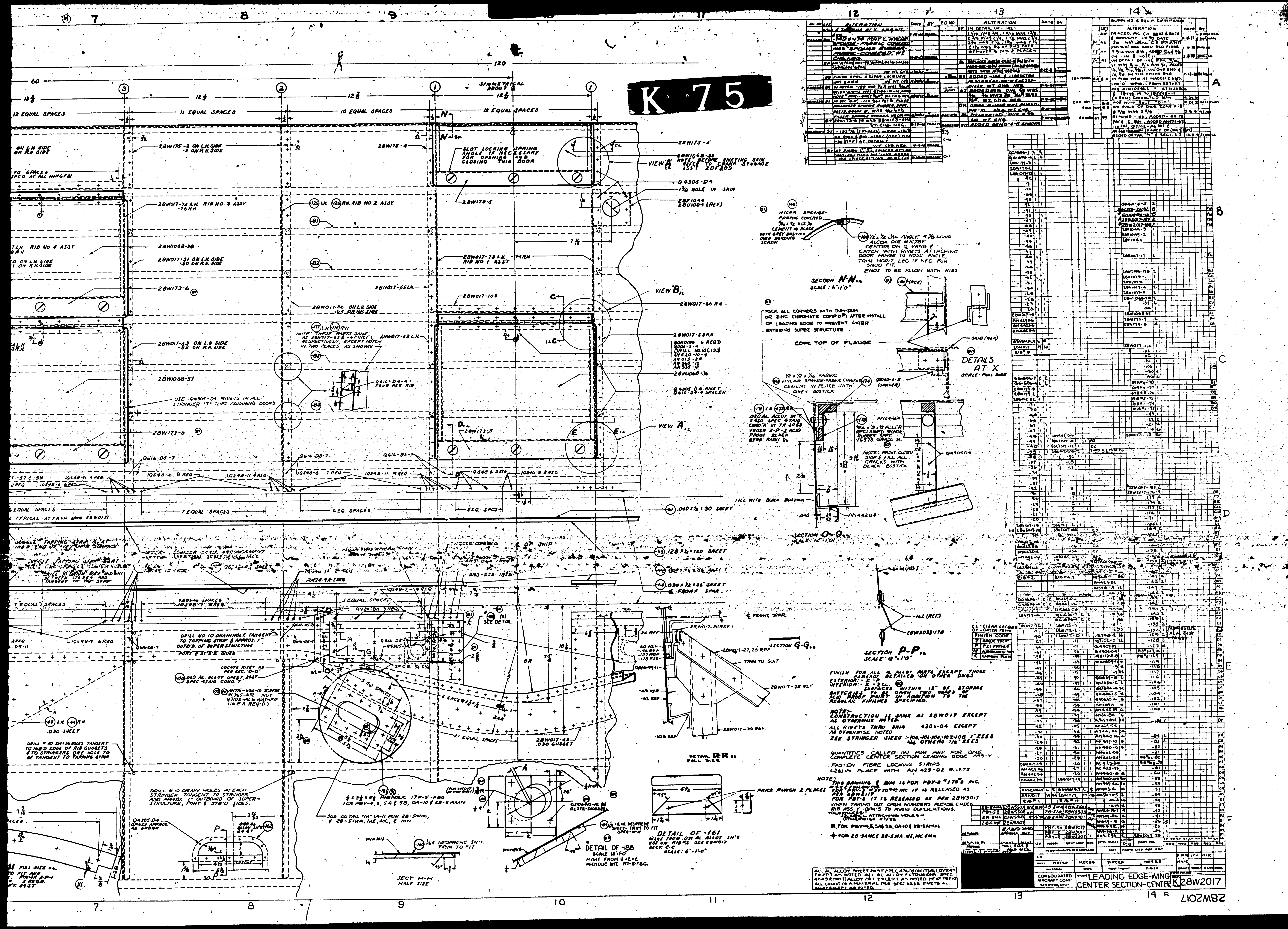

K 74
SECTION W-W
PBY-3 & PBY-4
SECTION V-V
SECT. AA-AA
DETAIL L
M-M
DOOR ASSEMBLY
SECTION R-R FULL SIZE
DETAIL S PBY-3 & PBY-4
SECTION U-U
SECTION C-C HALF SIZE
SECTION F-F
SECTION E-E
SECTION BE HALF SIZE
SECTION Y-Y HALF SIZE
SECTION Z-Z HALF SIZE
SECTION G-G FULL SIZE
VIEW X-X HALF SIZE
FRONT SPAR

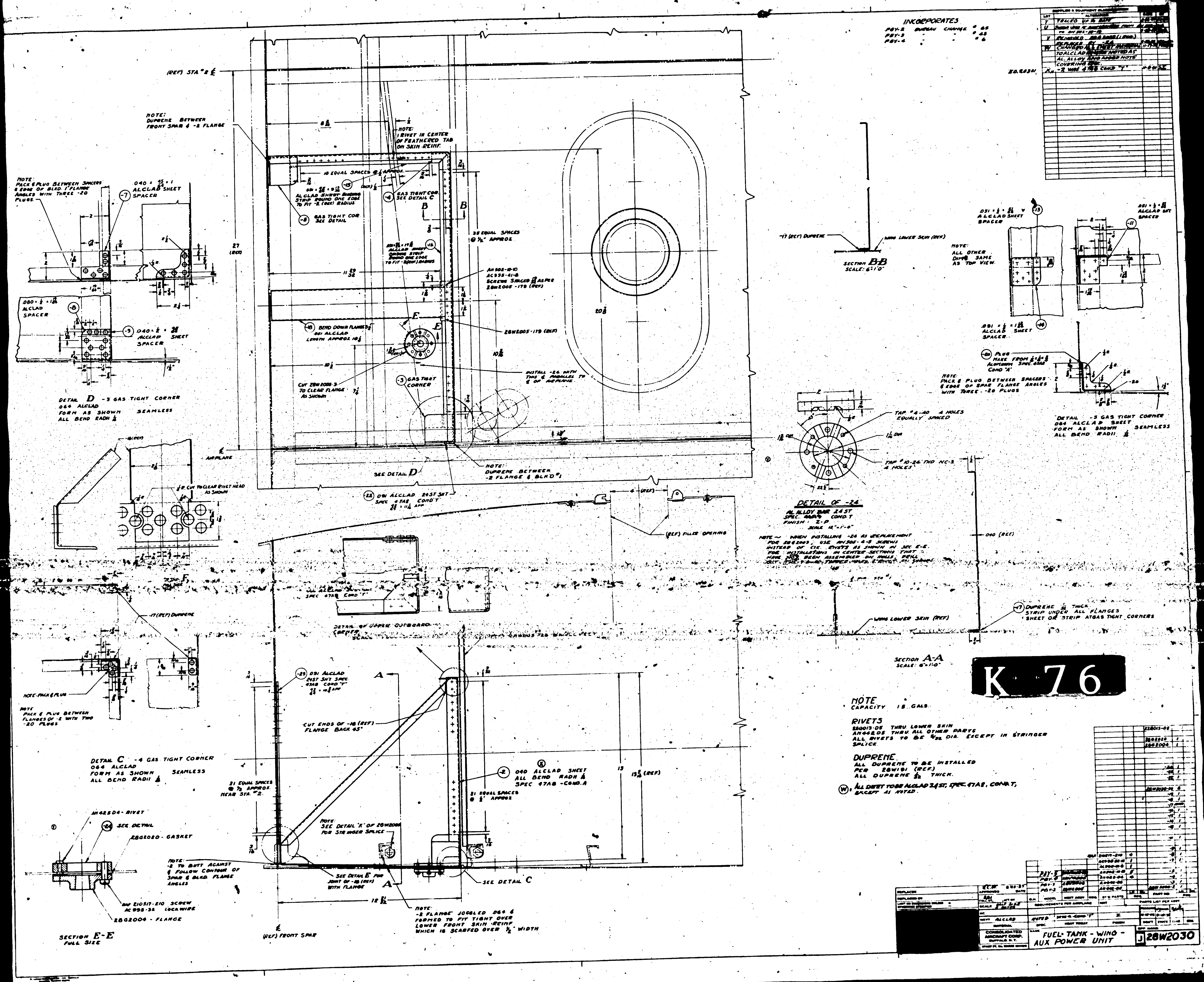


SECT. AA-AA FULL SIZE
UPPER SKIN CONTOUR LINE
SECTION BB-BB SCALE FULL SIZE
28W016-90
SECTION T-T TYPICAL
SECTION X-X FULL SIZE
WATERPROOF NOTES:-
DOOR
K 74
FINISH CODE
-GENERAL NOTES-
SECTION G-G FULL SIZE
SECTION H-H FULL SIZE
SECTION J-J FULL SIZE
DETAIL K HALF SIZE
SECTION Z-Z HALF SIZE
SECTION Y-Y HALF SIZE
LEADING EDGE - WING - CENTER SECTION - OUTER
28W016

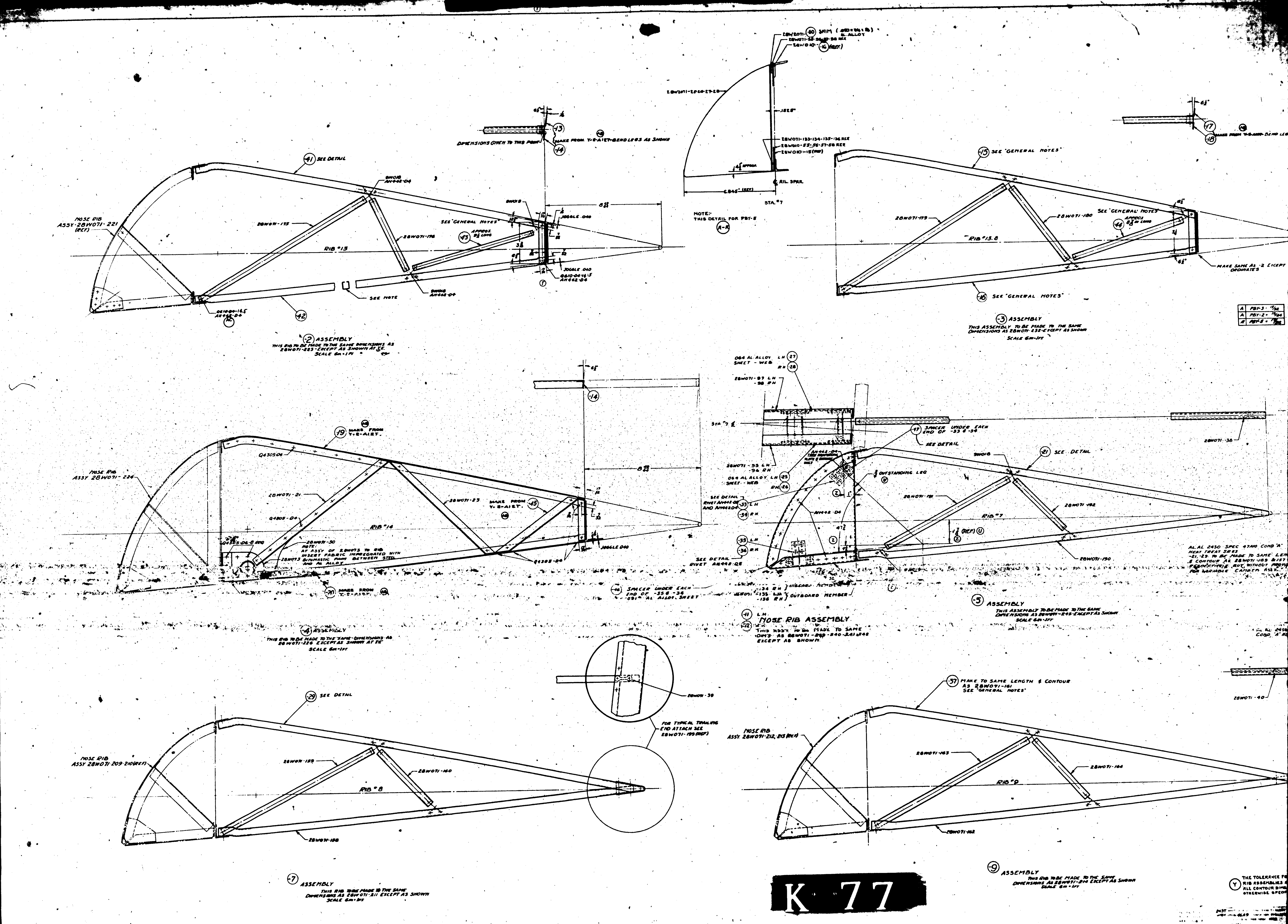


DETAIL "M" E-9
SECT S-S A-1 FULL SIZE
SECT. B-B
NOTE: DETERMINE CONTOUR FROM NACELLE SEE ALSO LINE DWG. 28R1083
NOTE: THIS HOLE FOR SHIPS NO. 1 TO 12 INCL., # 44 & # 45 ONLY
THIS HOLE ON R.H. SIDE ONLY
11 EQUAL SPACES
12 EQUAL SPACES
2 EQ. SPACES
3 EQUAL SPACES
6 EQUAL SPACES
7 EQUAL SPACES
SECTION A-A SCALE 6" = 1'-0"
SECT. CC FULL SIZE
SECT. D-D FULL SIZE
SECT E-E FULL SIZE
SECT J-J FULL SIZE
VIEW A
VIEW B
USE Q4305-04 RIVETS IN ALL STRINGER "T" CLIPS, ADJOINING DOORS
K 75


K 75
12 EQUAL SPACES
11 EQUAL SPACES
10 EQUAL SPACES
SYMMETRICAL ABOUT ℄
SLOT LOCKING SPRING ANGLE IF NECESSARY FOR OPENING AND CLOSING THIS DOOR
VIEW "A"
VIEW "B"
SECTION N-N
SCALE: 6"=1'0"
PACK ALL CORNERS WITH DUM-DUM OR ZINC CHROMATE COMP'D AFTER INSTALL OF LEADING EDGE TO PREVENT WATER ENTERING SUPER STRUCTURE
COPE TOP OF FLANGE
DETAILS AT X
SCALE: FULL SIZE
USE Q4305-D4 RIVETS IN ALL STRINGER "T" CLIPS ADJOINING DOORS
NOTE: THESE PARTS SAME AS 28W017-63 & -62 (REF) RESPECTIVELY, EXCEPT NOTCH IN TWO PLACES AS SHOWN
7 EQUAL SPACES
6 EQ. SPACES
FILL WITH BLACK BOSTICK
SECTION O-O
128 X 120 SHEET
.040 X 30 SHEET
.030 X 56 SHEET
℄ OF SHIP
℄ FRONT SPAR
SECTION G-G
SECTION P-P
SCALE: 12"=1'0"
DRILL NO. 10 DRAINHOLE TANGENT TO TAPPING STRIP & APPROX. 1" OUTB'D. OF SUPER STRUCTURE PORT & STB'D. SIDES
21 EQUAL SPACES
DETAIL R-R
FULL SIZE
DETAIL OF -188
SCALE 12"=1'0"
DETAIL OF -161
SECT. H-H
HALF SIZE
DRILL # 10 DRAIN HOLES AT EACH STRINGER TANGENT TO STRINGER AND APPROX 1" OUTBOARD OF SUPER-STRUCTURE, PORT & STB'D. SIDES.
FINISH FOR ALL AL ALLOY PARTS EXCEPT THOSE ALREADY DETAILED ON OTHER DWGS
NOTE:- CONSTRUCTION IS SAME AS 28W017 EXCEPT AS OTHERWISE NOTED.
ALL RIVETS THRU SKIN 4305-D4 EXCEPT AS OTHERWISE NOTED
QUANTITIES CALLED ON BMM ARE FOR ONE COMPLETE CENTER SECTION LEADING EDGE ASS'Y.
FASTEN FIBRE LOCKING STRIPS IN PLACE WITH AN 425-D2 RIVETS
PRICK PUNCH 2 PLACES
CONSOLIDATED AIRCRAFT CORP
LEADING EDGE-WING CENTER SECTION-CENTER
28W2017

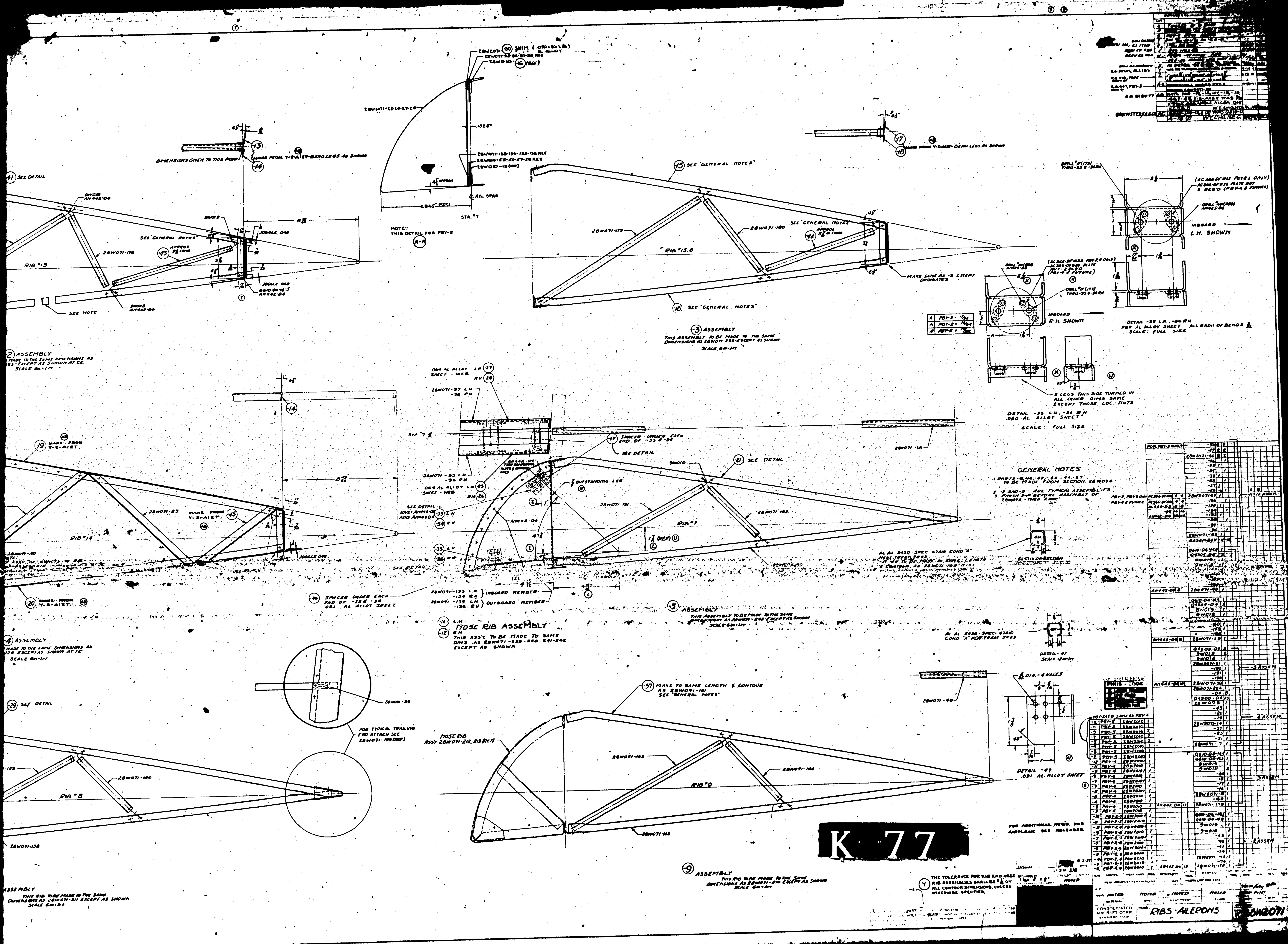


INCORPORATES
DETAIL D -3 GAS TIGHT CORNER
064 ALCLAD
FORM AS SHOWN SEAMLESS
ALL BEND RADII 1/8
SECTION B-B
DETAIL OF -24
DETAIL -3 GAS TIGHT CORNER
SECTION A-A
K 76
NOTE
CAPACITY 15 GALS
RIVETS
DUPRENE
ALL DUPRENE TO BE INSTALLED
DETAIL C -4 GAS TIGHT CORNER
064 ALCLAD
FORM AS SHOWN SEAMLESS
SECTION E-E
FULL SIZE
CONSOLIDATED AIRCRAFT CORP.
FUEL TANK - WING - AUX POWER UNIT
J 28W2030

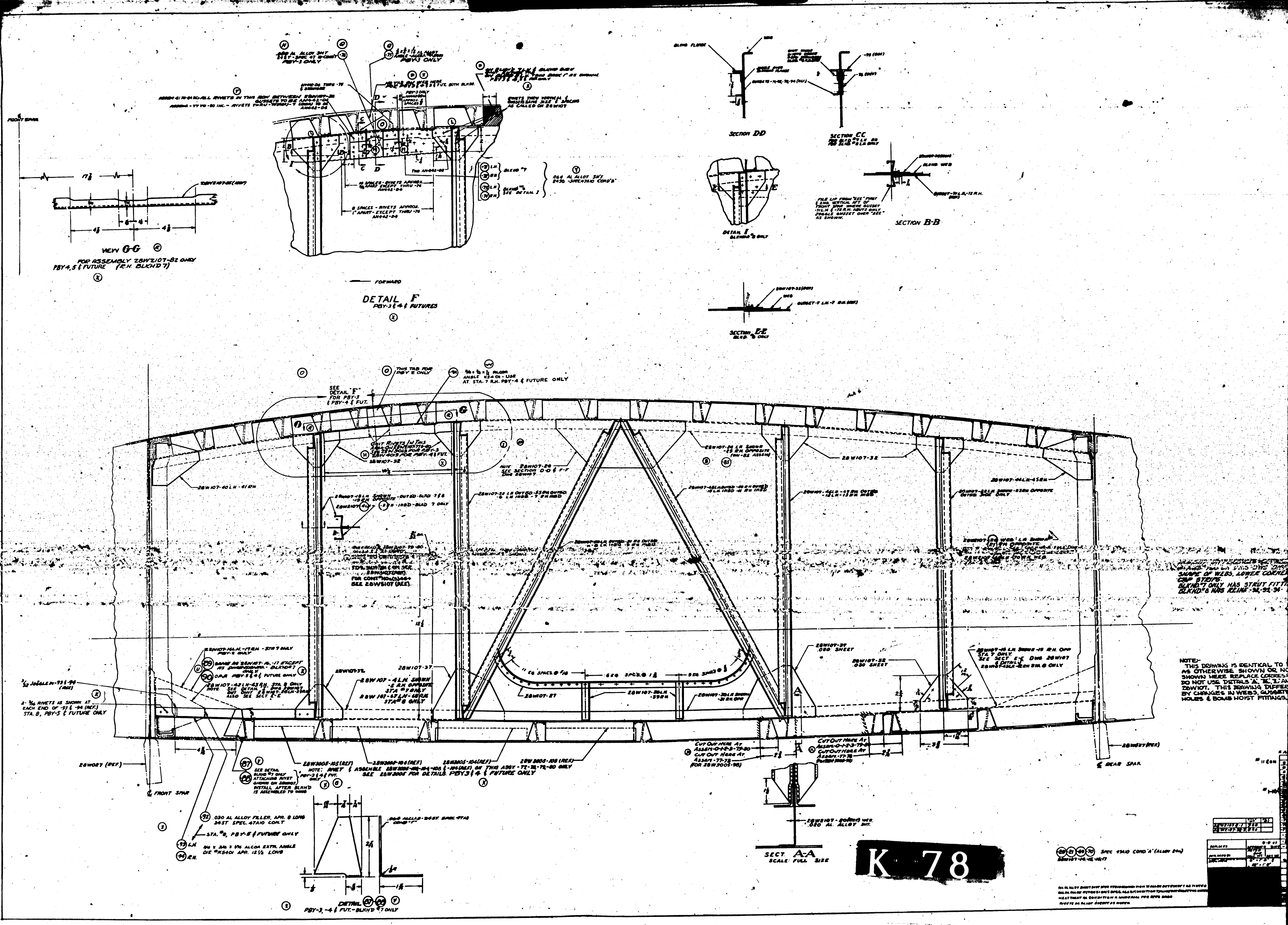


SEE DETAIL
NOSE RIB ASSY 28W071-221 (REF)
RIB #13
SEE NOTE
SEE "GENERAL NOTES"
JOGGLE .040
DIMENSIONS GIVEN TO THIS POINT
-2 ASSEMBLY
THIS RIB TO BE MADE TO THE SAME DIMENSIONS AS 28W071-225 EXCEPT AS SHOWN AT "S"
SCALE 6in-1ft
NOTE: THIS DETAIL FOR PBY-5
RIB #13.8
-3 ASSEMBLY
THIS ASSEMBLY TO BE MADE TO THE SAME DIMENSIONS AS 28W071-232 EXCEPT AS SHOWN
SCALE 6in-1ft
NOSE RIB ASSY 28W071-224
RIB #14
MAKE FROM Y-2-A12T.
-4 ASSEMBLY
THIS RIB TO BE MADE TO THE SAME DIMENSIONS AS 28W071-226 EXCEPT AS SHOWN AT "S"
SCALE 6in-1ft
.064 AL ALLOY SHEET - WEB
SPACER UNDER EACH END OF -33 & -34
OUTSTANDING LEG
RIB #7
SEE DETAIL RIVET AN442-04
OUTBOARD MEMBER
NOSE RIB ASSEMBLY
-5 ASSEMBLY
THIS ASSEMBLY TO BE MADE TO THE SAME DIMENSIONS AS 28W071-245 EXCEPT AS SHOWN
SCALE 6in-1ft
FOR TYPICAL TRAILING END ATTACH SEE 28W071-199 (REF)
NOSE RIB ASSY 28W071-209-210 (REF)
RIB #8
-7 ASSEMBLY
THIS RIB TO BE MADE TO THE SAME DIMENSIONS AS 28W071-211 EXCEPT AS SHOWN
SCALE 6in-1ft
MAKE TO SAME LENGTH & CONTOUR AS 28W071-161 SEE "GENERAL NOTES"
NOSE RIB ASSY 28W071-212, 213 (REF)
RIB #9
-9 ASSEMBLY
THIS RIB TO BE MADE TO THE SAME DIMENSIONS AS 28W071-214 EXCEPT AS SHOWN
SCALE 6in-1ft

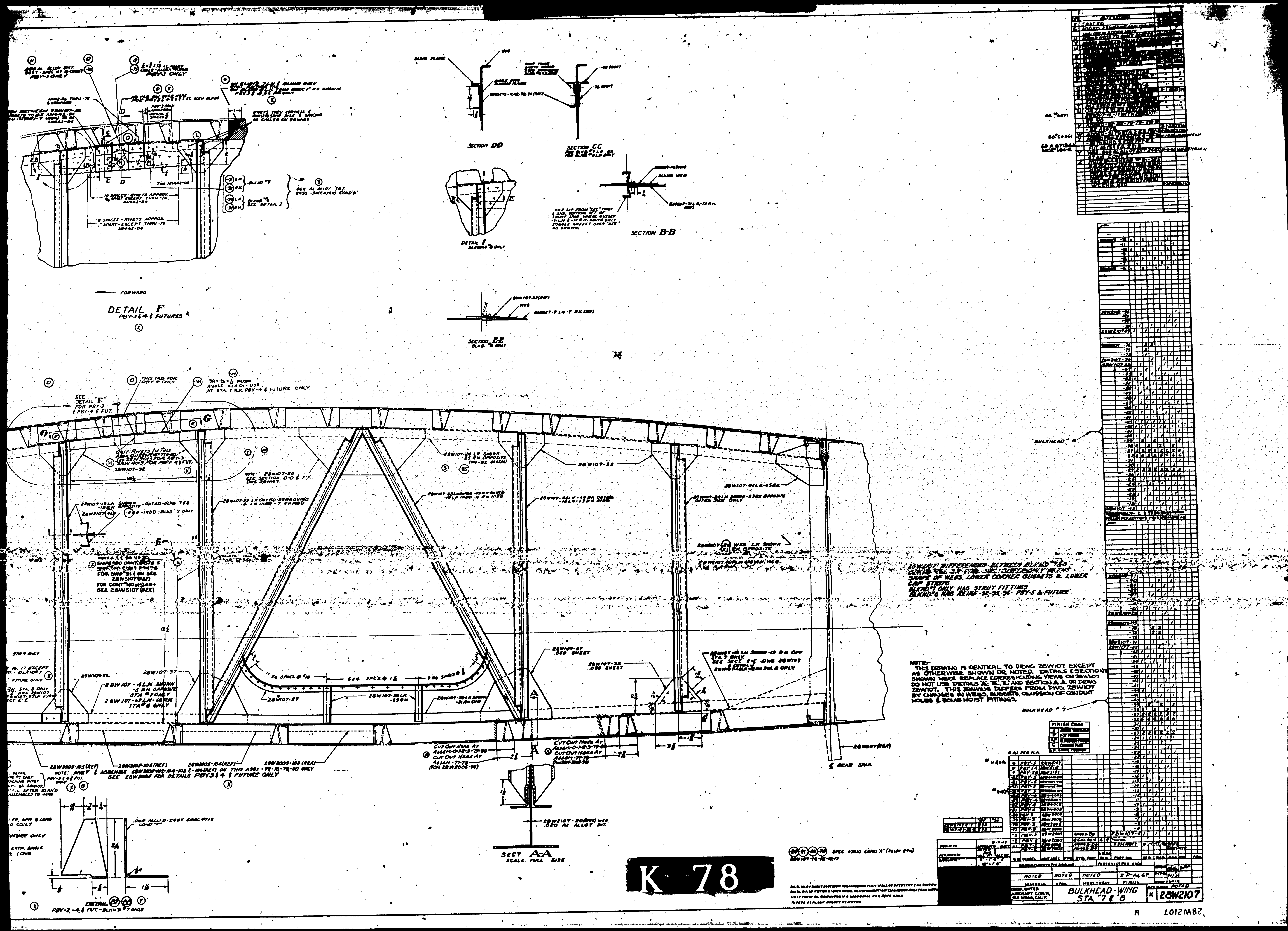
K 77



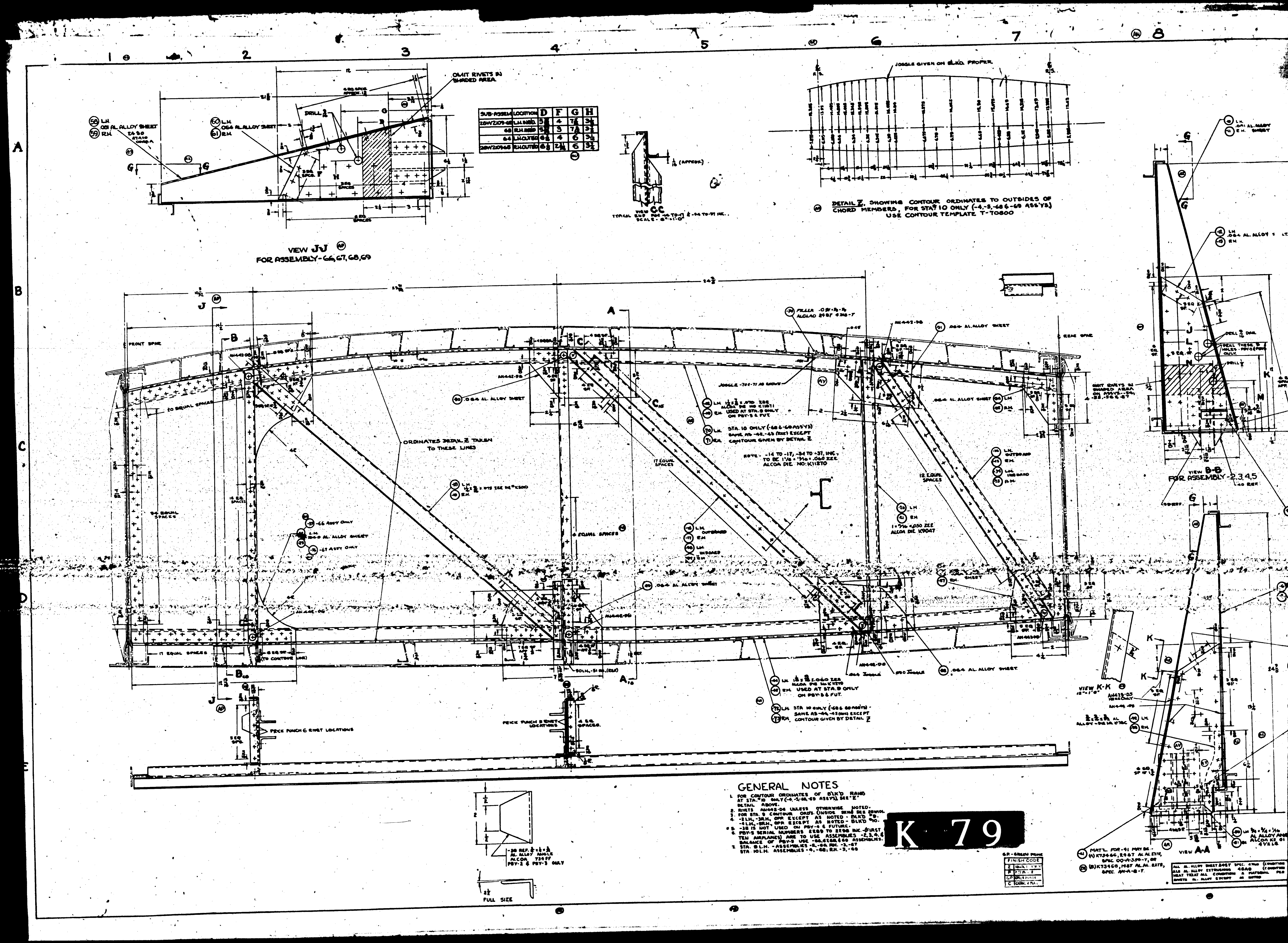
GENERAL NOTES
ASSEMBLY
THIS ASSEMBLY TO BE MADE TO THE SAME DIMENSIONS AS 28W071-232 EXCEPT AS SHOWN
SEE "GENERAL NOTES"
RIB 13.8
RIB 13
RIB 14
RIB 7
RIB 8
RIB 9
NOSE RIB ASSEMBLY
THIS ASSY. TO BE MADE TO SAME DIM'S. AS 28W071-239-240-241-242 EXCEPT AS SHOWN
NOTE: THIS DETAIL FOR PBY-5
SEE DETAIL
SEE NOTE
INBOARD MEMBER
OUTBOARD MEMBER
SPACER UNDER EACH END OF -35 & -36 .051 AL ALLOY SHEET
.064 AL ALLOY SHEET - WEB
DETAIL -35 L.H., -36 R.H. .080 AL ALLOY SHEET ALL RADII OF BENDS 1/8 SCALE: FULL SIZE
DETAIL -33 L.H., -34 R.H. .080 AL ALLOY SHEET SCALE: FULL SIZE
L.H. SHOWN
R.H. SHOWN
INBOARD
DETAIL -41 SCALE 12in=1ft
DETAIL -47 .051 AL. ALLOY SHEET
FOR TYPICAL TRAILING END ATTACH SEE 28W071-199 (REF)
FOR ADDITIONAL REQS. FOR AIRPLANE SEE RELEASES
THE TOLERANCE FOR RIB AND NOSE RIB ASSEMBLIES SHALL BE ±1/64 ON ALL CONTOUR DIMENSIONS, UNLESS OTHERWISE SPECIFIED
K 77
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
RIBS - AILERONS
28W071

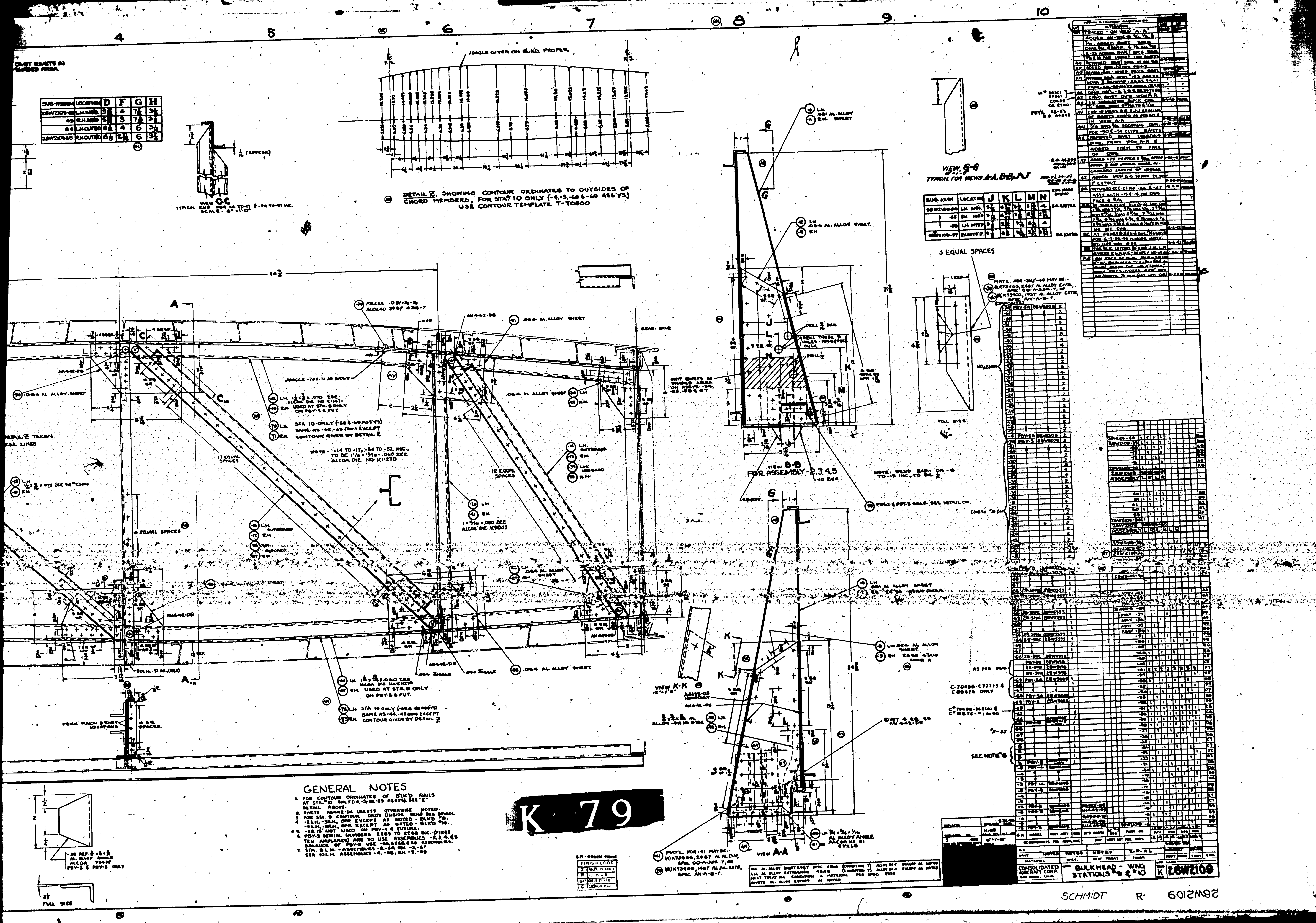


VIEW G-G
FOR ASSEMBLY 28W2107-82 ONLY
PBY4,5 & FUTURE (R.H. BLKHD 7)
FORWARD
DETAIL F
PBY-3 & 4 & FUTURES
SECTION D-D
SECTION C-C
DETAIL I
SECTION B-B
SECTION E-E
FRONT SPAR
REAR SPAR
28W107-32
28W107-37
28W107-27
SECT. A-A
SCALE: FULL SIZE
K 78

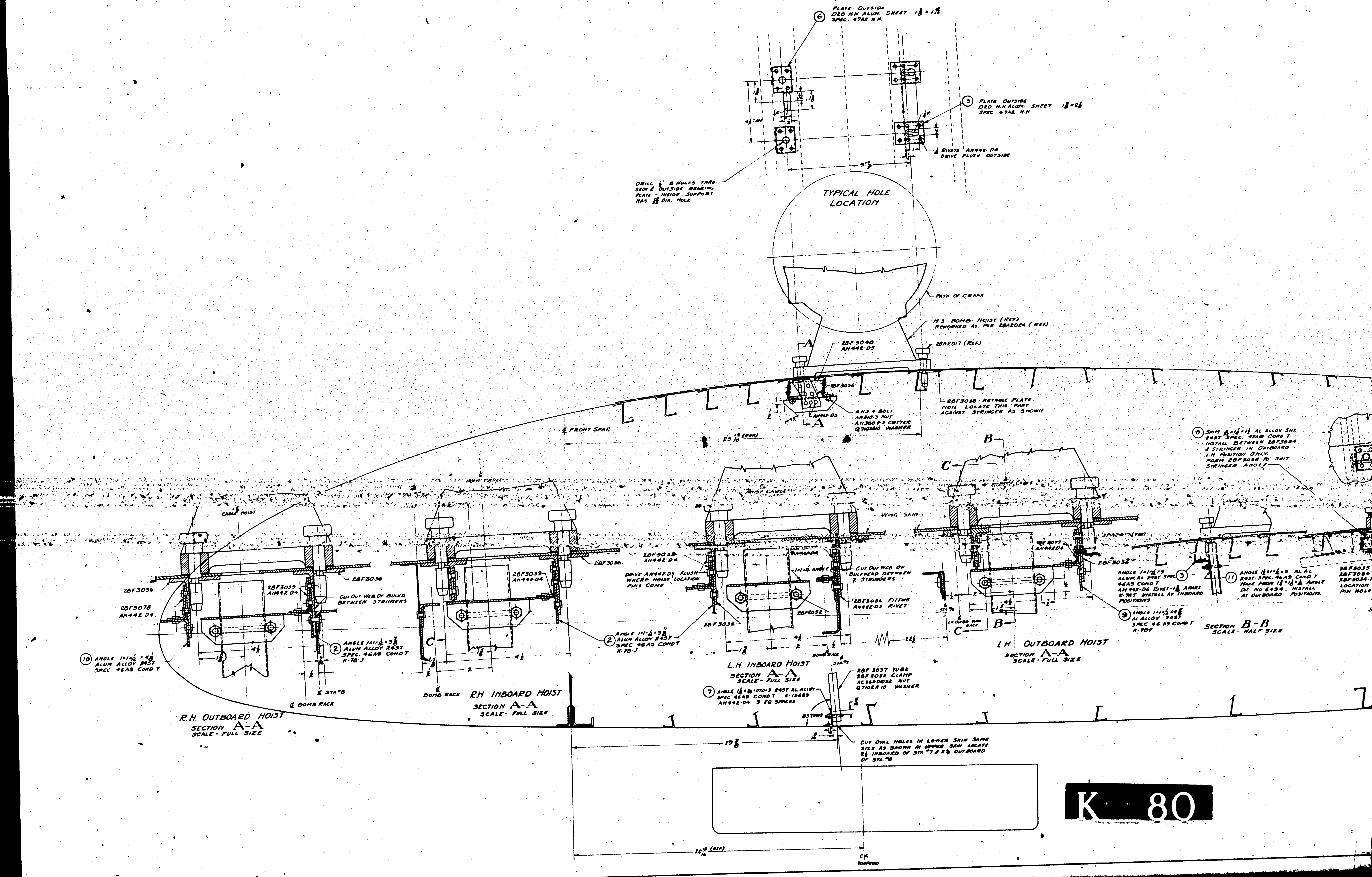


DETAIL F
PBY-3 & 4 & FUTURES
FORWARD
SECTION D-D
SECTION CC
DETAIL I
SECTION B-B
SECTION E-E
"BULKHEAD" 8
NOTE-
THIS DRAWING IS IDENTICAL TO DRWG 28W107 EXCEPT AS OTHERWISE SHOWN OR NOTED. DETAILS & SECTIONS SHOWN HERE REPLACE CORRESPONDING VIEWS ON 28W107. DO NOT USE DETAILS "A", "E", "L" AND SECTION A-A ON DRWG 28W107. THIS DRAWING DIFFERS FROM DWG 28W107 BY CHANGES IN WEBS, GUSSETS, OMISSION OF CONDUIT HOLES & BOMB HOIST FITTINGS.
BULKHEAD "7
SECT A-A
SCALE: FULL SIZE
℄ REAR SPAR
K 78
BULKHEAD-WING
STA "7 & "8
28W2107


VIEW JJ
FOR ASSEMBLY-66,67,68,69
DETAIL Z, SHOWING CONTOUR ORDINATES TO OUTSIDES OF CHORD MEMBERS, FOR STA. 10 ONLY (-4,-5,-68,-69 ASS'YS) USE CONTOUR TEMPLATE T-70600
VIEW B-B
FOR ASSEMBLY-2,3,4,5
VIEW K-K
VIEW A-A
ORDINATES DETAIL Z TAKEN TO THESE LINES
GENERAL NOTES
1. FOR CONTOUR ORDINATES OF BLK'D RAMS AT STA. 10 ONLY (-4,-5,-68,-69 ASSYS), SEE "Z" DETAIL ABOVE.
2. RIVETS AN442-06 UNLESS OTHERWISE NOTED.
3. FOR STA. 9 CONTOUR ORD'S. (INSIDE SKIN) SEE 28W101.
4. -2 L.H., -3 R.H., OPP. EXCEPT AS NOTED - BLK'D 9. -4 L.H., -5 R.H., OPP. EXCEPT AS NOTED - BLK'D 10.
5. -38 IS NOT USED ON PBY-4 & FUTURE.
6. PBY-5 SERIAL NUMBERS 2289 TO 2298 INC. (FIRST TEN AIRPLANES) ARE TO USE ASSEMBLIES -2,3,4,5 BALANCE OF PBY-5 USE -66,67,68,69 ASSEMBLIES.
7. STA. 9 L.H. - ASSEMBLIES -2,-66; R.H. -3,-67 STA. 10 L.H. ASSEMBLIES -4,-68; R.H. -5,-69
K 79
FINISH CODE



DETAIL Z, SHOWING CONTOUR ORDINATES TO OUTSIDES OF CHORD MEMBERS, FOR STA. 10 ONLY (-4,-5,-68 & -69 ASS'YS) USE CONTOUR TEMPLATE T-70600
JOGGLE GIVEN ON BLKD. PROPER
VIEW C-C
VIEW G-G
TYPICAL FOR VIEWS A-A, B-B, J-J
3 EQUAL SPACES
VIEW B-B
FOR ASSEMBLY -2,3,4,5
VIEW K-K
VIEW A-A
17 EQUAL SPACES
12 EQUAL SPACES
.064 AL. ALLOY SHEET
FULL SIZE
GENERAL NOTES
1. FOR CONTOUR ORDINATES OF BLK'D RAILS AT STA. 10 ONLY (-4,-5,-68,-69 ASS'YS) SEE "Z" DETAIL ABOVE.
2. RIVETS AN442-D6 UNLESS OTHERWISE NOTED.
K 79
CONSOLIDATED AIRCRAFT CORP.
BULKHEAD - WING STATIONS 9 & 10
28W2109
SCHMIDT R


PLATE - OUTSIDE
TYPICAL HOLE LOCATION
PATH OF CRANE
M-3 BOMB HOIST (REF)
℄ FRONT SPAR
WING SKIN
R.H. OUTBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
R.H. INBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
L.H. INBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
L.H. OUTBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
SECTION B-B
SCALE - HALF SIZE
℄ BOMB RACK
CABLE HOIST
HOIST CABLE

K 80

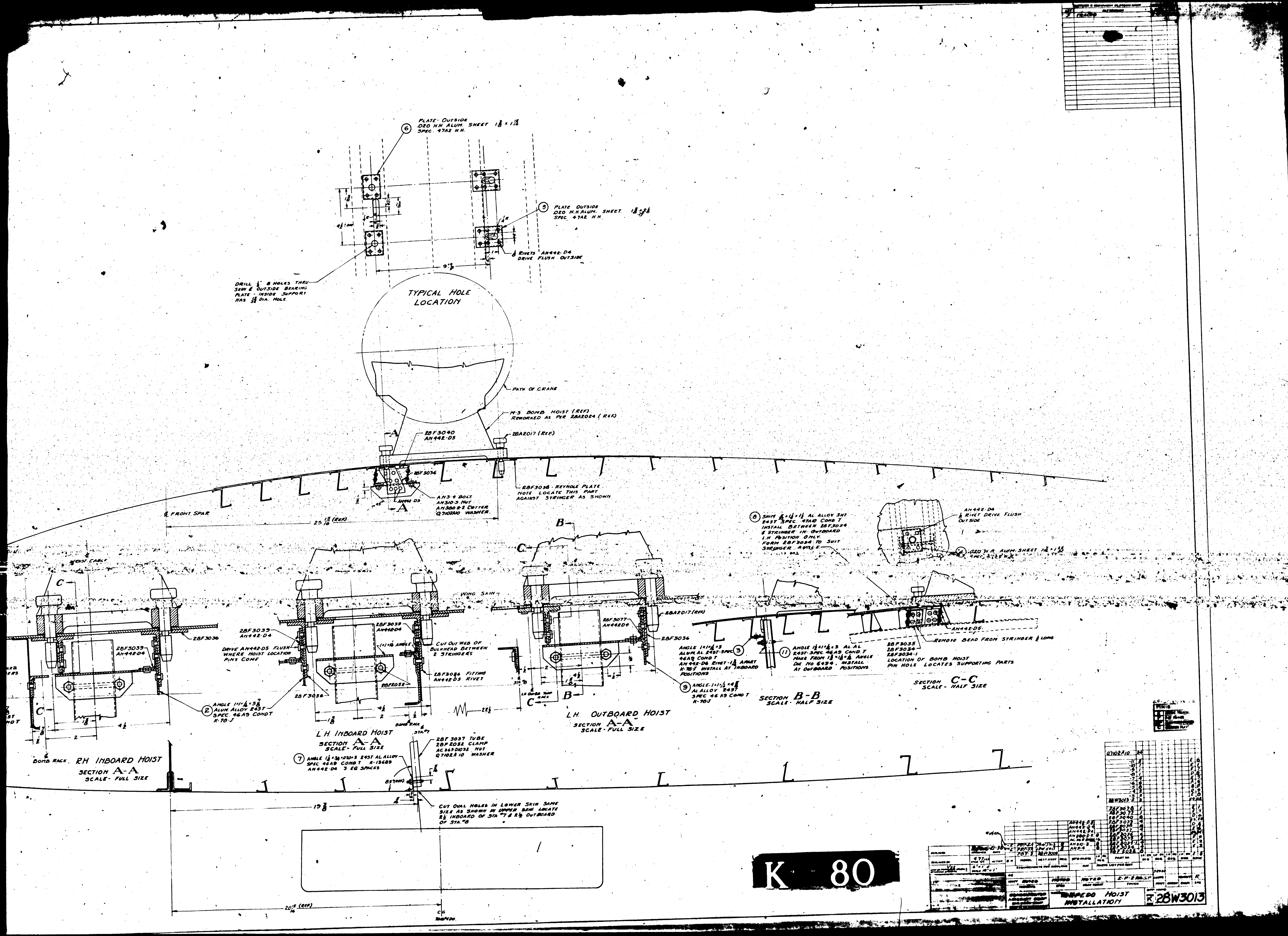
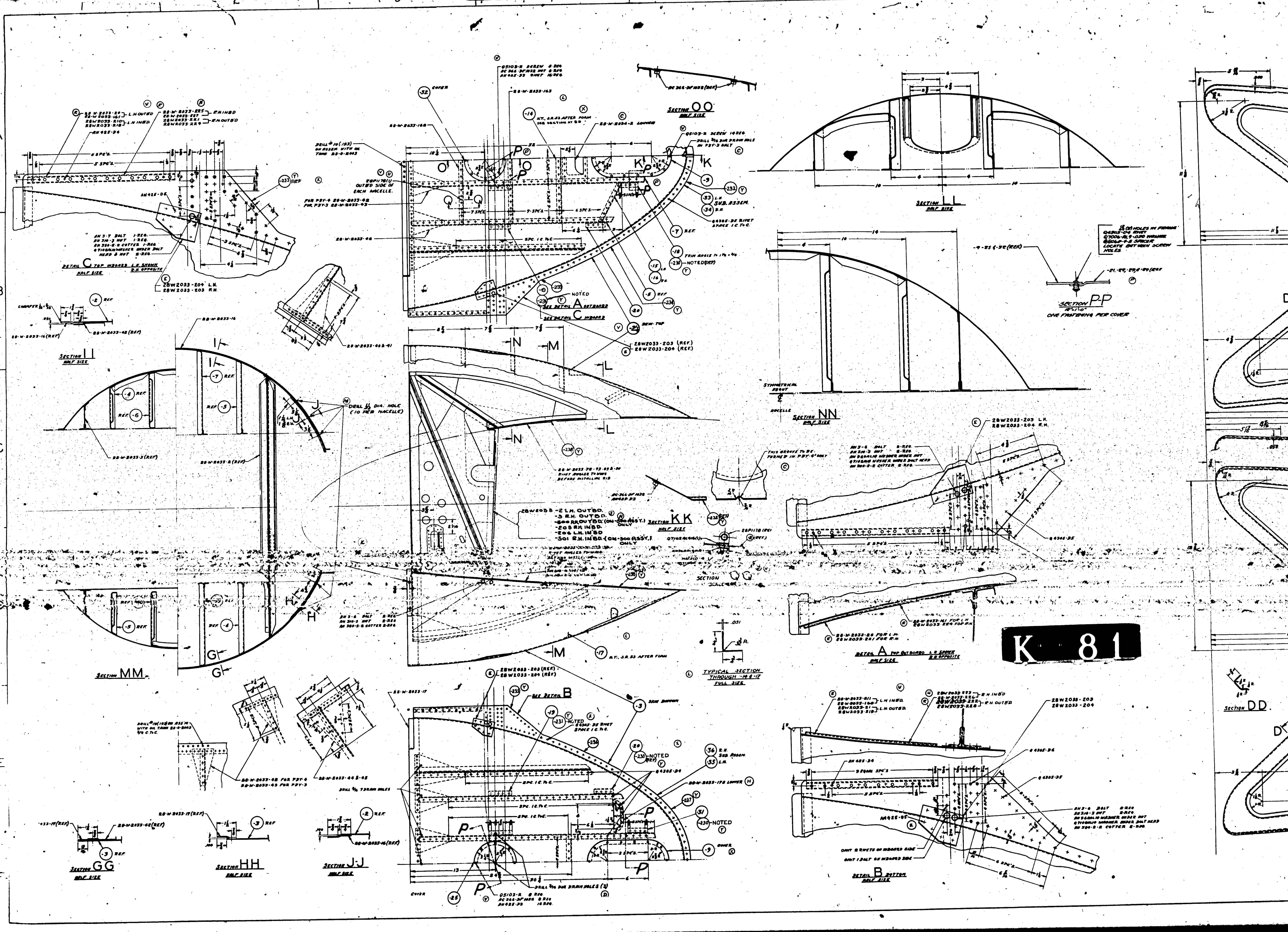
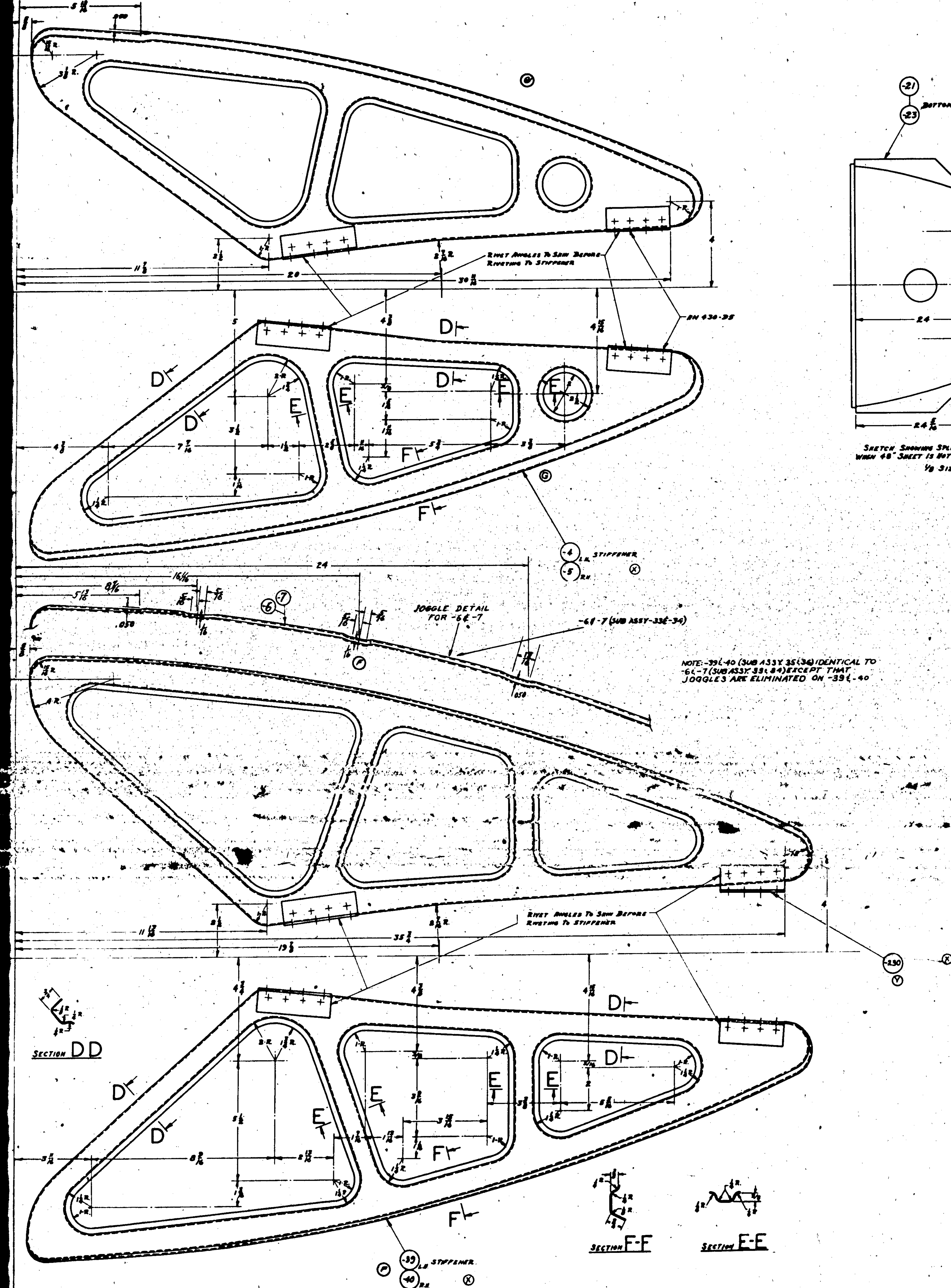
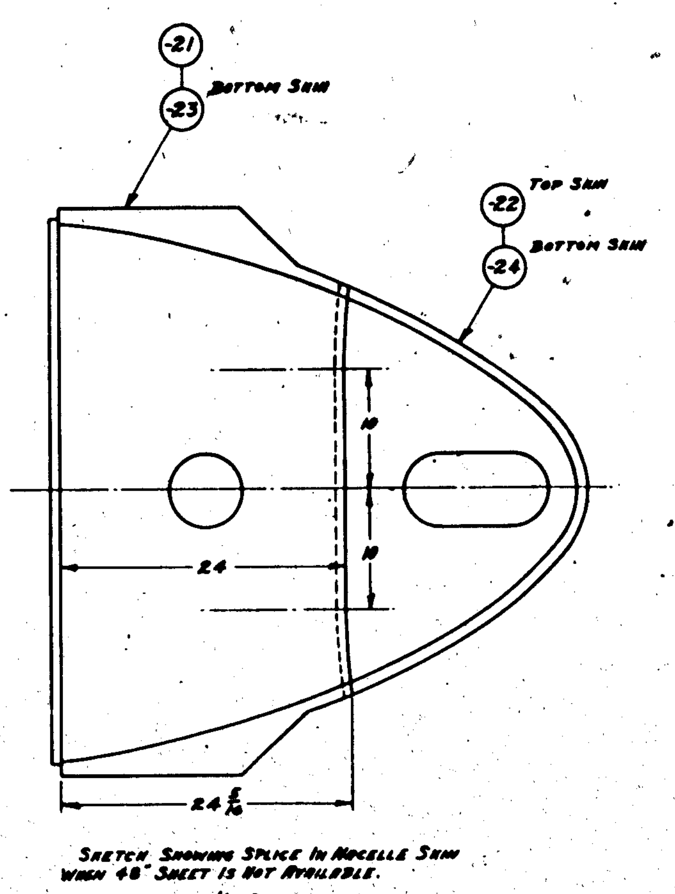


PLATE - OUTSIDE .020 H.H. ALUM. SHEET SPEC. 47A2 H.H.
PLATE OUTSIDE .020 H.H. ALUM. SHEET SPEC. 47A2 H.H.
RIVETS AN442-D4 DRIVE FLUSH OUTSIDE
DRILL 1/4" 8 HOLES THRU SKIN & OUTSIDE BEARING PLATE - INSIDE SUPPORT HAS 3/8 DIA. HOLE
TYPICAL HOLE LOCATION
PATH OF CRANE
M-3 BOMB HOIST (REF) REWORKED AS PER 28A2024 (REF)
28F3040
AN442-D5
28A2017 (REF)
28F3036
AN3-4 BOLT
AN310-3 NUT
AN380-2-2 COTTER
Q7102A10 WASHER
28F3038 - KEYHOLE PLATE. NOTE LOCATE THIS PART AGAINST STRINGER AS SHOWN
FRONT SPAR
HOIST CABLE
WING SKIN
28F3039
AN442-D4
DRIVE AN442-D5 FLUSH WHERE HOIST LOCATION PINS COME
CUT OUT WEB OF BULKHEAD BETWEEN 2 STRINGERS
28F3084 FITTING
AN442D5 RIVET
28F3077
AN442D4
ANGLE 1 1/2 x 1 1/2 x 3/8 ALUM ALLOY 24ST SPEC 46A9 COND T K-78-J
RH INBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
L.H. INBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
L.H. OUTBOARD HOIST
SECTION A-A
SCALE - FULL SIZE
SECTION B-B
SCALE - HALF SIZE
SECTION C-C
SCALE - HALF SIZE
REMOVE BEAD FROM STRINGER
LOCATION OF BOMB HOIST PIN HOLE LOCATES SUPPORTING PARTS
28F3037 TUBE
28F2032 CLAMP
AC365D1032 NUT
Q7102A10 WASHER
CUT OVAL HOLES IN LOWER SKIN SAME SIZE AS SHOWN IN UPPER SKIN
TORPEDO HOIST INSTALLATION
28W3013
K 80



SECTION OO HALF SIZE
SECTION LL HALF SIZE
SECTION NN HALF SIZE
SYMMETRICAL ABOUT ℄ NACELLE
SECTION P-P
ONE FASTENING PER COVER
DETAIL C TOP INBOARD L.H. SHOWN R.H. OPPOSITE HALF SIZE
28W2033-204 L.H.
28W2033-203 R.H.
SECTION II HALF SIZE
DRILL 1/8 DIA. HOLE (10 PER NACELLE)
SEE DETAIL A OUTBOARD
SEE DETAIL C INBOARD
28W2033-203 (REF.)
28W2033-204 (REF.)
SECTION KK HALF SIZE
28W2033-203 L.H.
28W2033-204 R.H.
DETAIL A TOP OUTBOARD L.H. SHOWN R.H. OPPOSITE HALF SIZE
K 81
SECTION MM
TYPICAL SECTION THROUGH -14 & -17 FULL SIZE
SEE DETAIL B
SECTION DD
SECTION GG HALF SIZE
SECTION HH HALF SIZE
SECTION J-J HALF SIZE
DETAIL B BOTTOM HALF SIZE
28W2033-203
28W2033-204





SKETCH SHOWING SPLICE IN NACELLE SKIN WHEN 48" SHEET IS NOT AVAILABLE.
1/8 SIZE

NOTE:
1 RIVET SPACING IN 28-W-3033-2 AS SHOWN IN DETAILS "A" & "C" MAKES TOP SKIN RIGHT & LEFT HAND
2. FOR NACELLE LINES SEE DWG # 28-R-1083
3. FOR WING CONTOUR SEE DWG # 28-W-2005
4. 28-W-3033-2 IS REPLACED BY -21 & -22 WHEN 48 IN. SHEET IS NOT AVAILABLE.
5 28-W-3033-3 IS REPLACED BY -23 & -24 WHEN 48 IN. SHEET IS NOT AVAILABLE.
6. 28-W-2033 & 28-W-2033-1 TO BE INSTALLED ON FOUR (4) PBY-3 WINGS C.A.C. # 1,2,3,4. BU. AERO # 0842, 0843, 0844, 0845.
7. 28-W-3033 & 28-W-3033-1 TO BE INSTALLED ON FOUR (4) PBY-2 SPARE CENTER SECTIONS

NOTE -230 TO BE USED UNDER 18-20 & -31.
-231 TO BE USED UNDER -18

NOTE -
-37 IS L.H. ASSY -38 & -500 ARE R.H. ASSY

SEE NOTE 5

SEE NOTE 4

PART NO.	STOCK	MATERIAL	SPEC.	-37	-38	-500
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

K 81

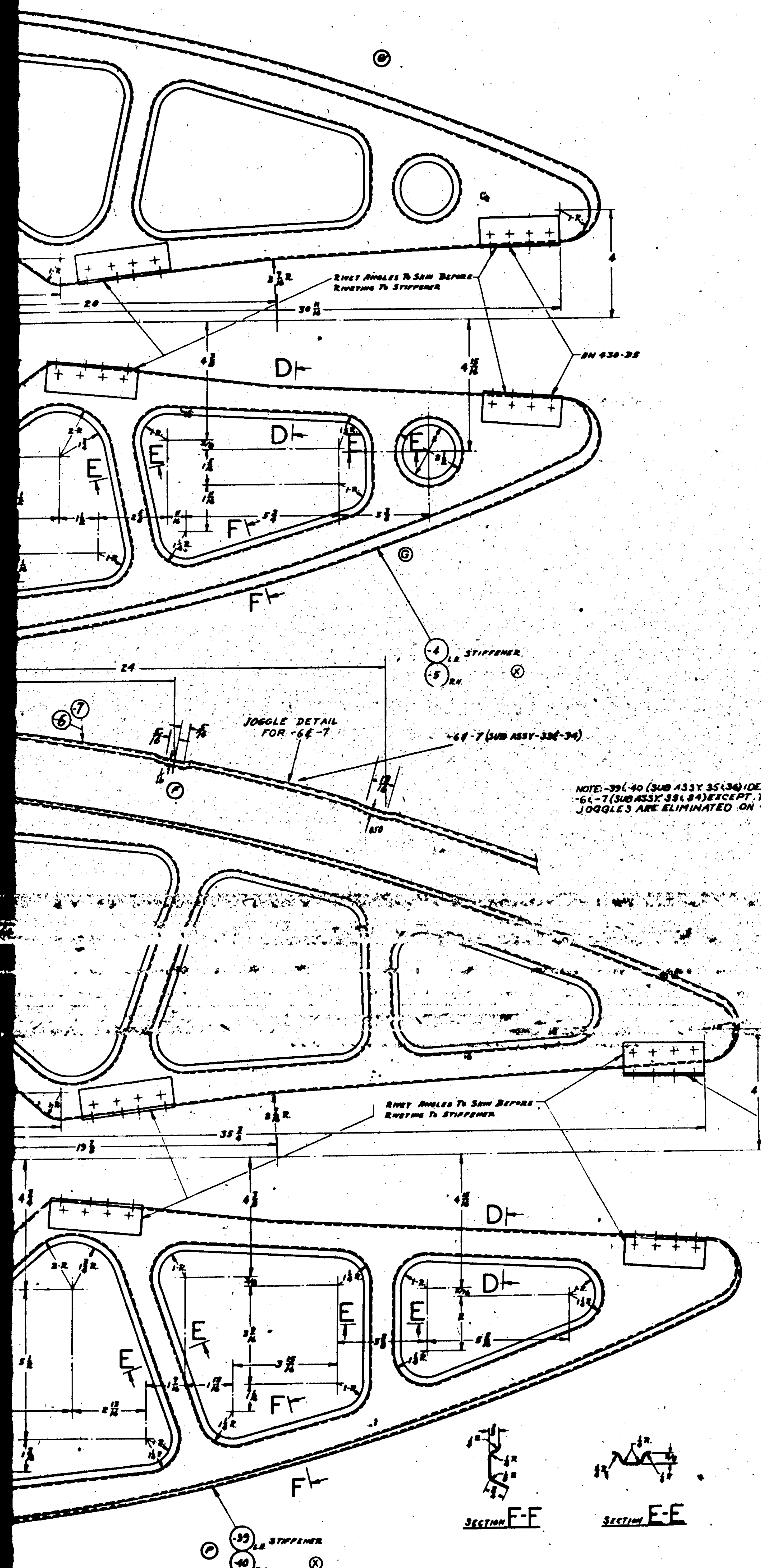
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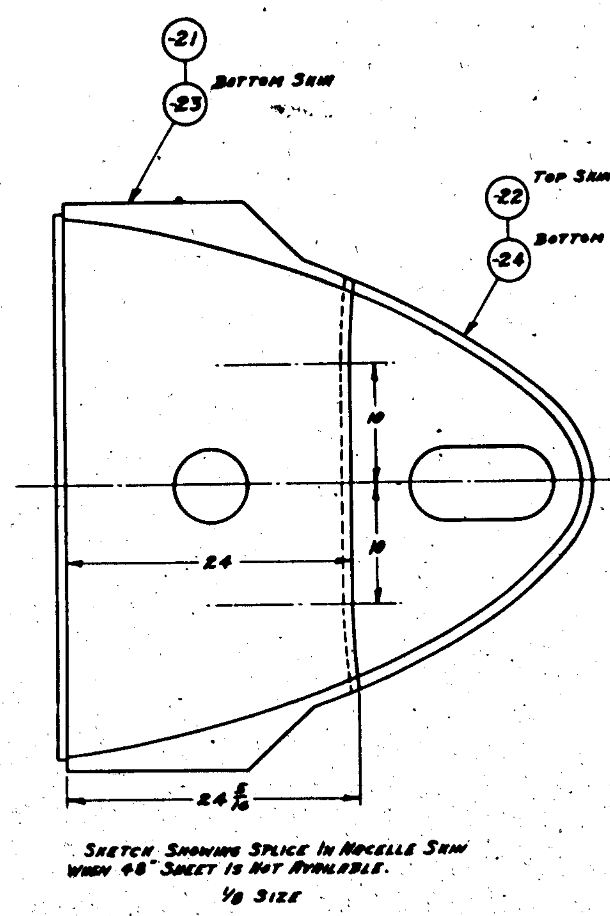
RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKINGS)
3/32 1/8 5/32 3/16 1/4 5/16 3/8 SPOTWELD

REQUIREMENTS PER AIRPLANE

PARTS LIST PER ASSY.

NAME
NACELLE STRUCTURE
CONSOLIDATED AIRCRAFT CORP.
K 28W





SKETCH SHOWING SPLICE IN NACELLE SKIN WHEN 48" SHEET IS NOT AVAILABLE.
½ SIZE

NOTE:
1 RIVET SPACING IN 28-W-3033-2 AS SHOWN IN DETAILS "A" & "C" MAKES TOP SKIN RIGHT & LEFT HAND
2. FOR NACELLE LINES SEE DWG.# 28-R-1083
3. FOR WING CONTOUR SEE DWG.# 28-W-2005
4. 28-W-3033-2 IS REPLACED BY -21 & -22 WHEN 48 IN. SHEET IS NOT AVAILABLE.
5. 28-W-3033-3 IS REPLACED BY -23 & -24 WHEN 48 IN SHEET IS NOT AVAILABLE.
6. 28-W-2033 & 28-W-2033-1 TO BE INSTALLED ON FOUR (4) PBY-3 WINGS C.A.C.# 1, 2, 3, 4. BU. AERO # 0842, 0843, 0844, 0845.
7. 28-W-3033 & 28-W-3033-1 TO BE INSTALLED ON FOUR (4) PBY-2 SPARE CENTER SECTIONS

NOTE -230 TO BE USED UNDER 18-20 & -31.
-231 TO BE USED UNDER -18

NOTE—
-37 IS L.H. ASSY -38 & -500 ARE R.H. ASSY

PART NO.	STOCK	MATERIAL	SPEC.		ZONE
04303-D5					
04303-D4					
AN425D3					
04305-D5					
04305-D4					
07006AL8				2	B8
05103-2				22	F4
0806D4-5				2	B8
AC366DF1032				22	
28W2033-228				1	E6
-226				1	E6
-223				1	E6
-222				1	E6
-204				1	E7
-203				1	E7
-178				2	E5
-45				1	E3
-44				1	E3
-42				4	E2
28W2033-17				1	E3
28W3033-40	.040X14X42	AL.AL.	47A10-T	1	F10
-39	.040X14X42	AL.AL.	47A10-T	1	F10
-25	[illegible]	AL.AL.	47A10-T	1	F3
-24	[illegible]	AL.AL.	47A10-T	1	A12
-23	[illegible]	AL.AL.	47A10-T	1	A12
-17	[illegible]	ALCLAD	[illegible]	1	D4
-9	[illegible]	AL.AL.	47A10-T	1	F5
-5	.040X12X36	AL.AL.	47A10-T	1	C10
-4	.040X12X36	AL.AL.	47A10-T	1	C10
28W3033-3	[illegible]	AL.AL.	47A10-T	1	E5
-36	SUB-ASSY				E5

SEE NOTE 5

SEE NOTE 4

SEE NOTE 7

PART NO.	STOCK	MATERIAL	SPEC.	-37	-38	-500	-4	-8	ZONE
-35	SUB-ASSY								
-20	[illegible]	AL.AL.EX.	46A3-T	4	4	4			E5
-19	[illegible]	AL.AL.EX.	46A3-T	8	8	8			E5
-18	[illegible]	AL.AL.EX.	46A3-T	2	2	2			B5

PARTS LIST PER ASSY.

FINISH CODE

+ = RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKINGS)

Z-P-GP

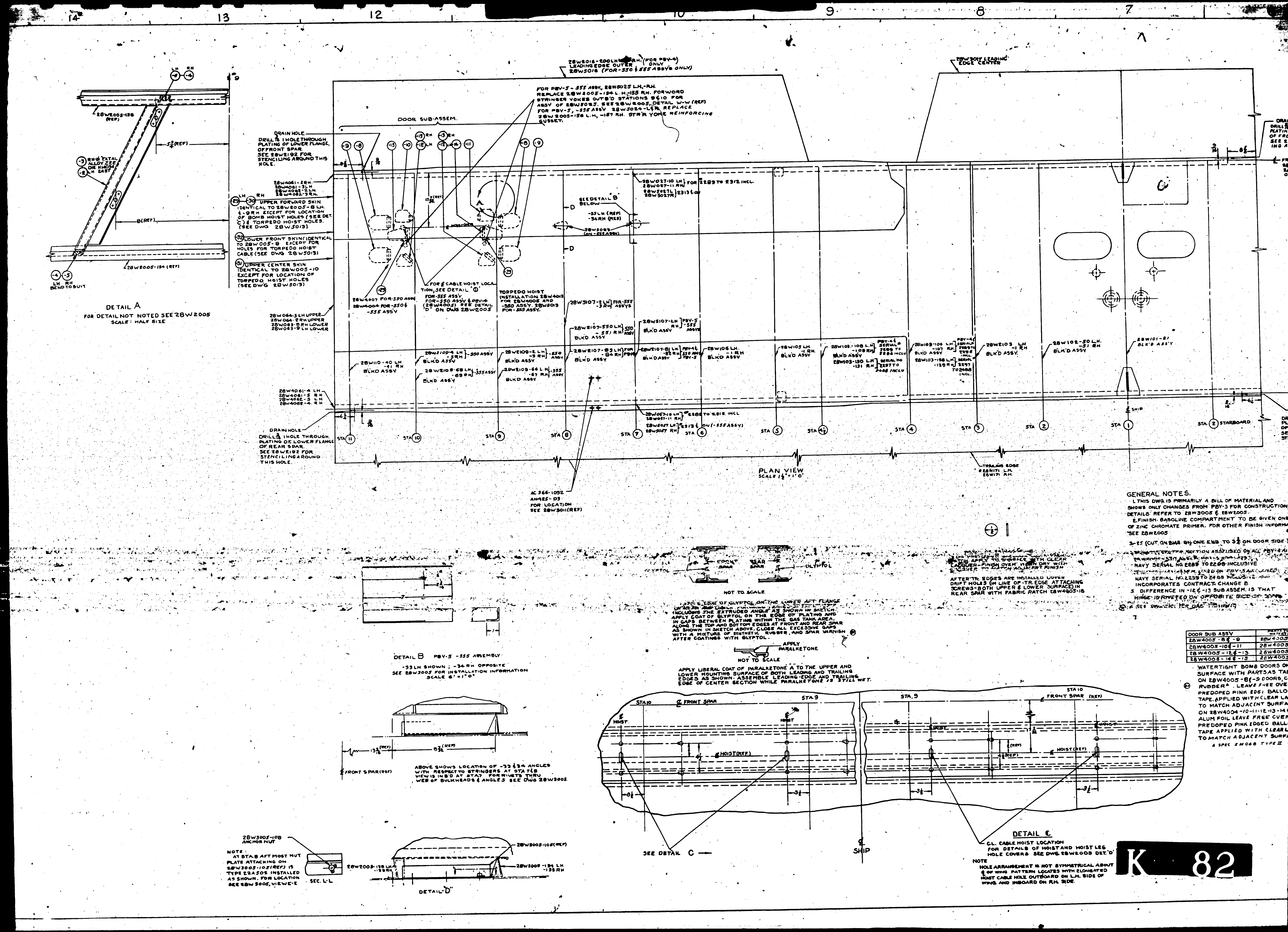
HALY

NAME
NACELLE STRUCTURE
CONSOLIDATED AIRCRAFT CORP.

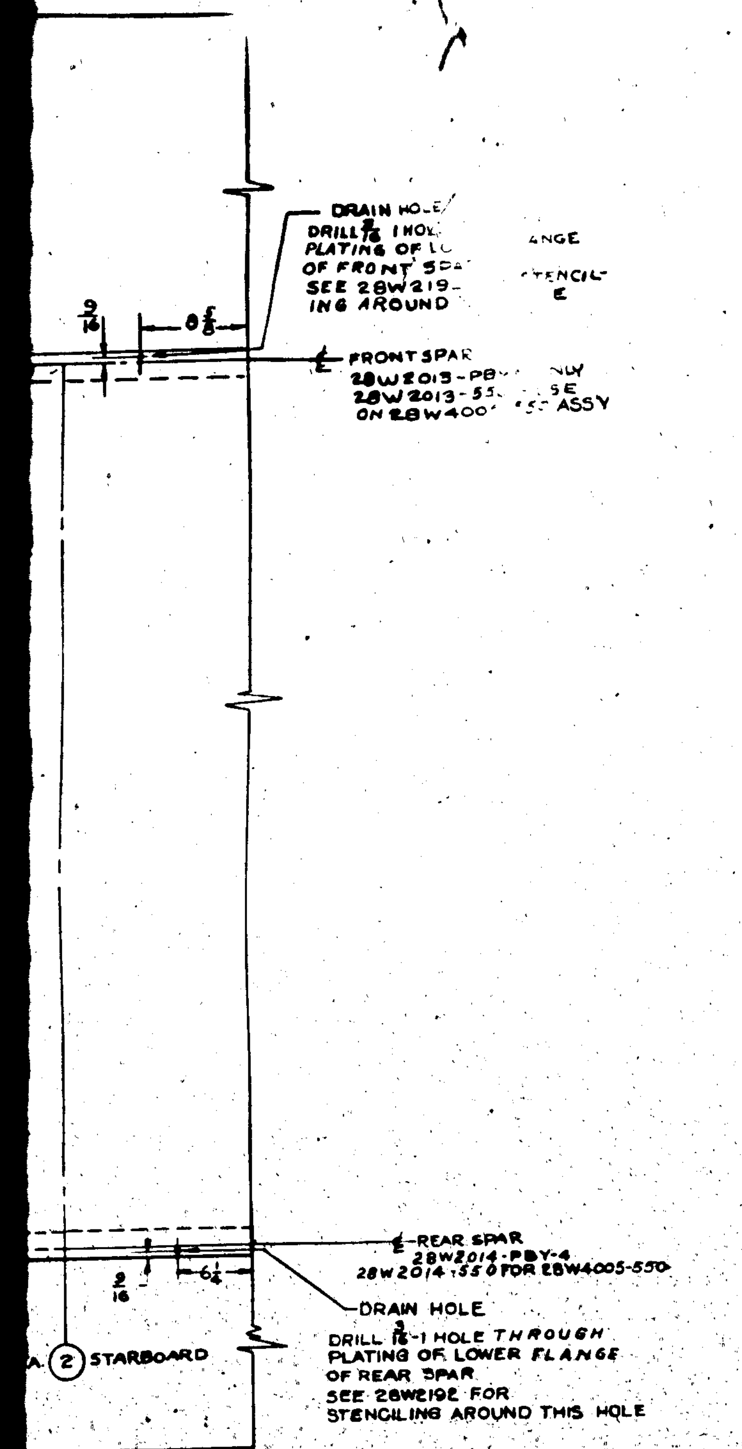
K 28W3033

K 81

R
28W3033



DOOR SUB-ASSEM.
DETAIL A
FOR DETAIL NOT NOTED SEE 28W2005
SCALE: HALF SIZE
PLAN VIEW
SCALE 1½"=1'0"
STA 11
STA 10
STA 9
STA 8
STA 7
STA 6
STA 5
STA 4½
STA 4
STA 3
STA 2
STA 1
STA 2 STARBOARD
℄ SHIP
GENERAL NOTES.
1. THIS DWG IS PRIMARILY A BILL OF MATERIAL AND SHOWS ONLY CHANGES FROM PBY-3 FOR CONSTRUCTION DETAILS REFER TO 28W3005 & 28W2005.
2. FINISH. GASOLINE COMPARTMENT TO BE GIVEN ONE COAT OF ZINC CHROMATE PRIMER. FOR OTHER FINISH INFORMATION SEE 28W2005
NOT TO SCALE
APPLY PARALKETONE
APPLY LIBERAL COAT OF PARALKETONE A TO THE UPPER AND LOWER MOUNTING SURFACE OF BOTH LEADING AND TRAILING EDGES AS SHOWN. ASSEMBLE LEADING EDGE AND TRAILING EDGE OF CENTER SECTION WHILE PARALKETONE IS STILL WET.
DETAIL B PBY-5 -555 ASSEMBLY
-33 LH SHOWN ; -34 RH OPPOSITE
SEE 28W3005 FOR INSTALLATION INFORMATION
SCALE 6"=1'0"
ABOVE SHOWS LOCATION OF -33 & 34 ANGLES WITH RESPECT TO STRINGERS AT STA 7 & 8 VIEW IS INB'D AT STA 7. FOR RIVETS THRU WEB OF BULKHEADS & ANGLES SEE DWG 28W3005.
℄ FRONT SPAR (REF)
DETAIL C
C.L. CABLE HOIST LOCATION
FOR DETAILS OF HOIST AND HOIST LEG HOLE COVERS SEE DWG 28W2005 DET. D
NOTE
HOLE ARRANGEMENT IS NOT SYMMETRICAL ABOUT ℄ OF WING. PATTERN LOCATES WITH ELONGATED HOIST CABLE HOLE OUTBOARD ON L.H. SIDE OF WING AND INBOARD ON R.H. SIDE.
SEE DETAIL C
℄ SHIP
DETAIL "D"
SEC. L-L
K 82



A BILL OF MATERIAL AND
M PBY-3 FOR CONSTRUCTION
005 & 28W2005.
PARTMENT TO BE GIVEN ONE COAT
. FOR OTHER FINISH INFORMATION

END TO 3 1/2" ON DOOR SIDE)
N ASSY USED ON ALL ... AIRPLANES
... AIRPLANES
... INCLUSIVE
SED ON PBY-5 AIRPLANES
0 2488 INCLUSIVE AND
ACT CHANGE B
... SUB ASSEM IS THAT ...
PPOSITE SIDE OF DOOR
TIGHTING

SUB ASSY	PARTS TO BE USED TO WATERTIGHT DOORS
005 - 8 & -9	28W4005 -19 & -20
005 -10 & -11	28W4005 -21 & -22
005 - 12 & -13	28W4005 -26 & -27
005 - 14 & -15	28W4005 -24 & -25

ATERTIGHT BOMB DOORS ON LOWER
RFACE WITH PARTS AS TABULATED ABOVE.
28W4005 -8 -9 DOORS, COVER HINGE WITH SYN.
UBBER^Δ. LEAVE FREE OVERHINGE. COVER WITH
EDOPED PINK EDGE BALLOON CLOTH FABRIC
PE APPLIED WITH CLEAR LACQUER AND FINISH
MATCH ADJACENT SURFACE.
28W4004 -10-11-12-13-14 & 15 COVER HINGE
UM FOIL LEAVE FREE OVER HINGE. COVER WITH
EDOPED PINK EDGED BALLOON CLOTH FABRIC
E APPLIED WITH CLEAR LACQUER AND FINISH
MATCH ADJACENT SURFACES.
Δ SPEC ZM.048 TYPE II GRADE B

PART NO	STOCK	MATERIAL	SPEC	ZONE	LIMITATIONS	PART NO	STOCK	MATERIAL	SPEC	ZONE	LIMITATIONS	PART NO	STOCK	MATERIAL	SPEC	ZONE	LIMITATIONS

PARTS LIST PER ASSY

K 82

REVISION	LTR.	ALTERATION	DATE	BY	ZONE
	BH	TRACED FROM BLUEPRINT NO WT CHG.			
[illegible]	BI	REMOVED FROM B/M 28W005-166 (4 REQ) 28W005-167 (8 REQ) [illegible] -188 (32 REQ) 28W005-187 (4 REQ) 28W005-186 (8 REQ) & 28W005-185 (8 REQ) REPLACED WITH 28W005-170 (8 REQ) 28W005-172 (14 REQ) 28W005-180 (10 REQ) 28W005-181 (62 REQ) 28W005-182 (24 REQ) 28W005-183 (6 REQ) 28W005-184 (12 REQ) & 28W005-185 (8 REQ) NO WT CHG			
	BJ	IN B/M 28F2051-L WAS 28F2051 & 28F2051-R WAS 28F2051-1 WT. CHG NEG.			
MCR 67A	BK	ON FACE OF DWG CHG. ALL NEOPRENE TO SYN RUBBER NO WT. CHG			
MCR [illegible]	BL	ADDED NOTE "SEE 28W2151 FOR GAS TIGHTING." NO WT CHG			
	BM	AN526-DD428-8 (A) WAS AN520-DA16-8 (D4). NO WT. CHG			

PART NO. | STOCK | MATERIAL | SPEC.

PARTS LIST PER ASSY.

AC		DRAWN			KLEIN	
NAVY NOTED	NOTED	1-5-38		1-7-38	1-7-38	R
HEAT TREAT	FINISH	DRAFT	CHECK	STRESS	MAT.	APPROVED	ENG.

OPP HAND - NONE

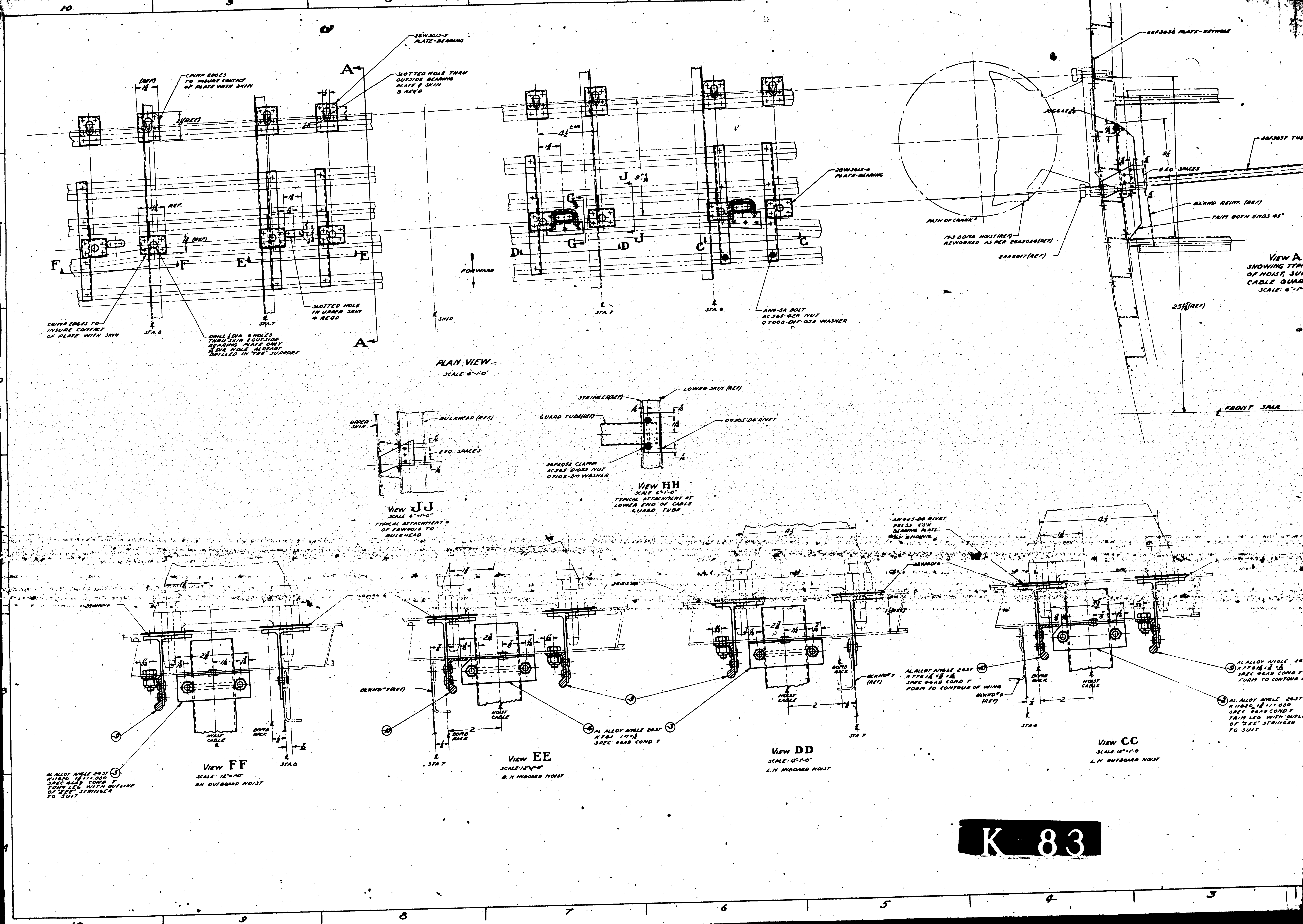
NAME: CENTER SECTION ASSEMBLY WING

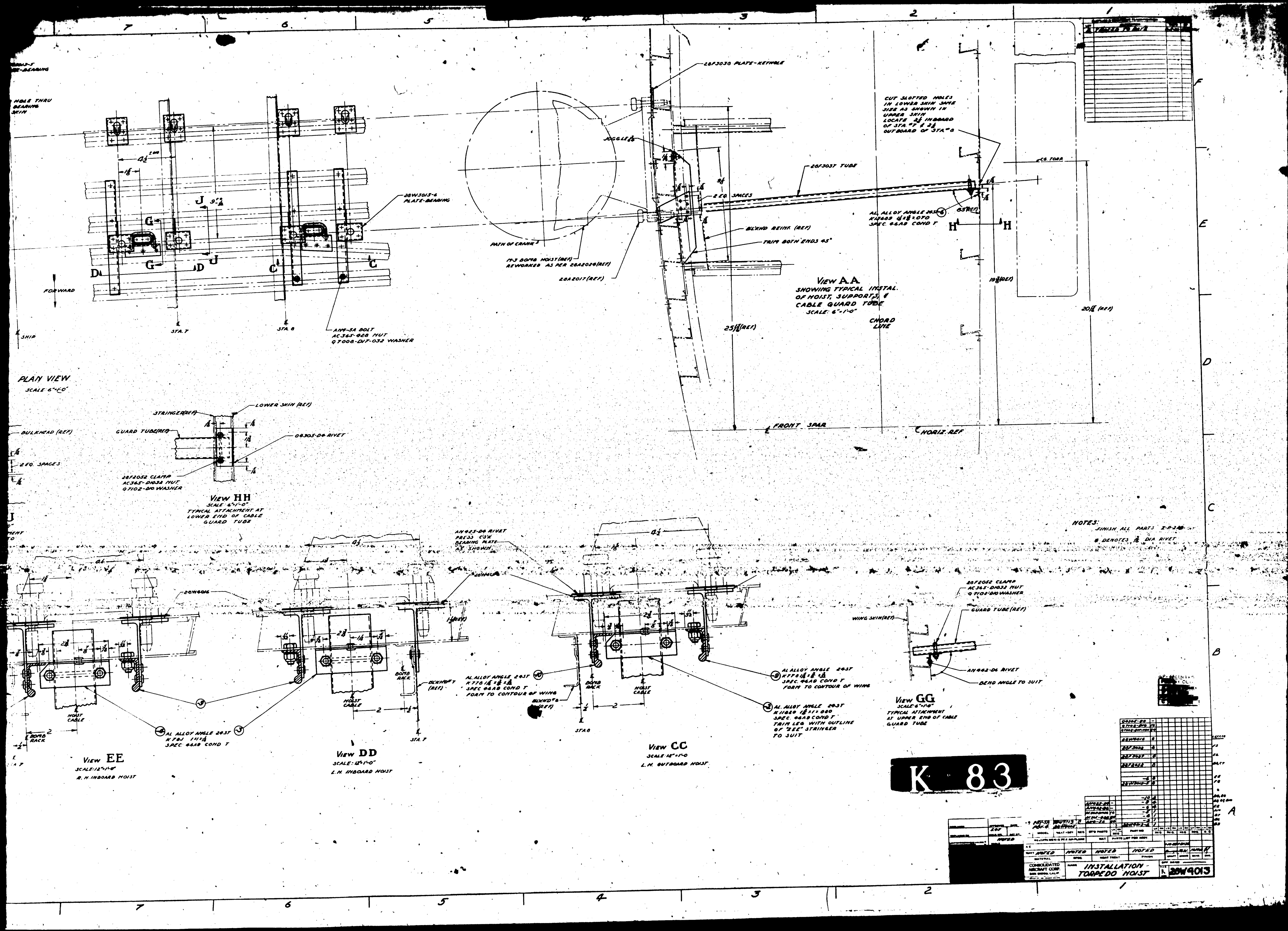
CONSOLIDATED AIRCRAFT CORP.

K 28W 4005

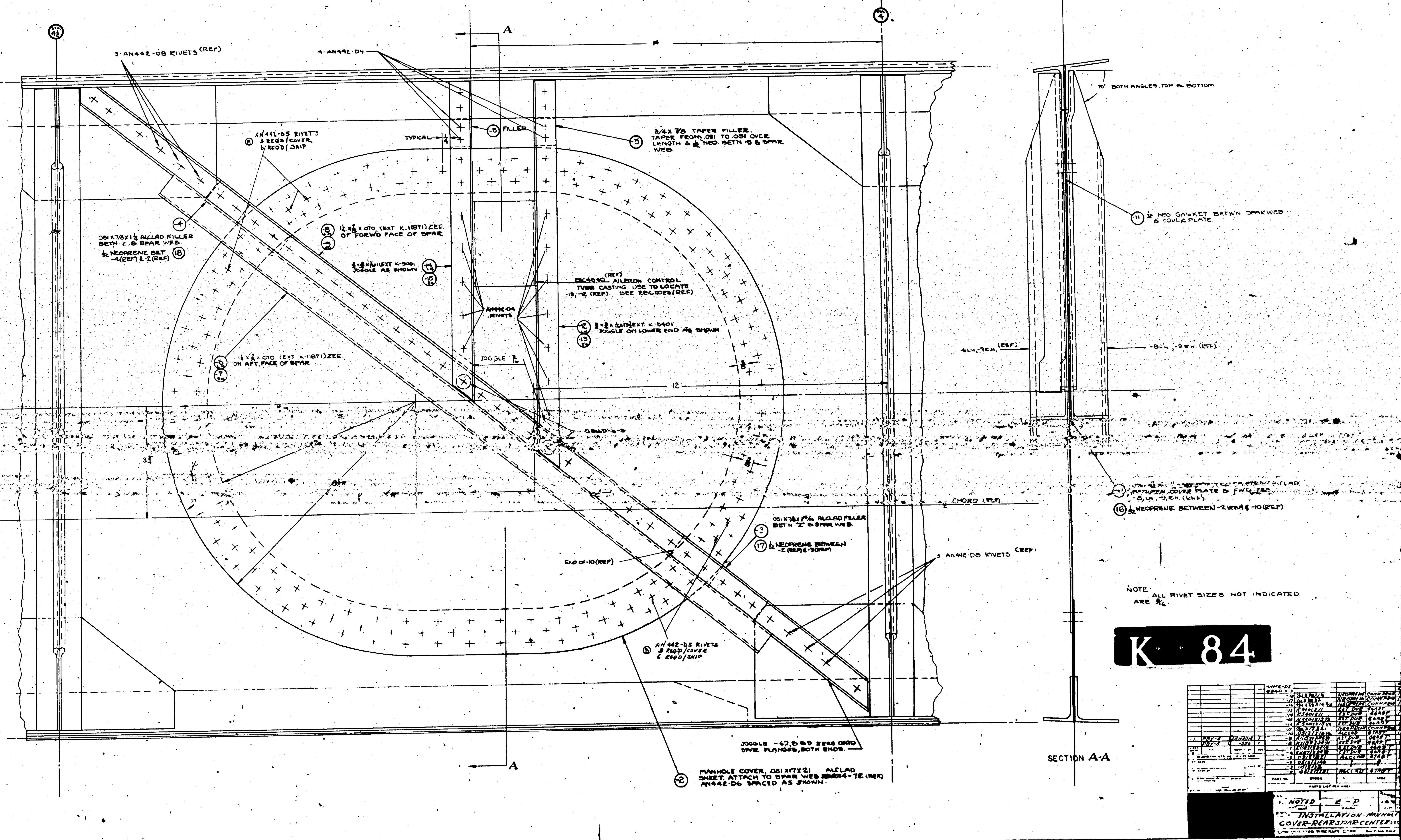
R

28W4005

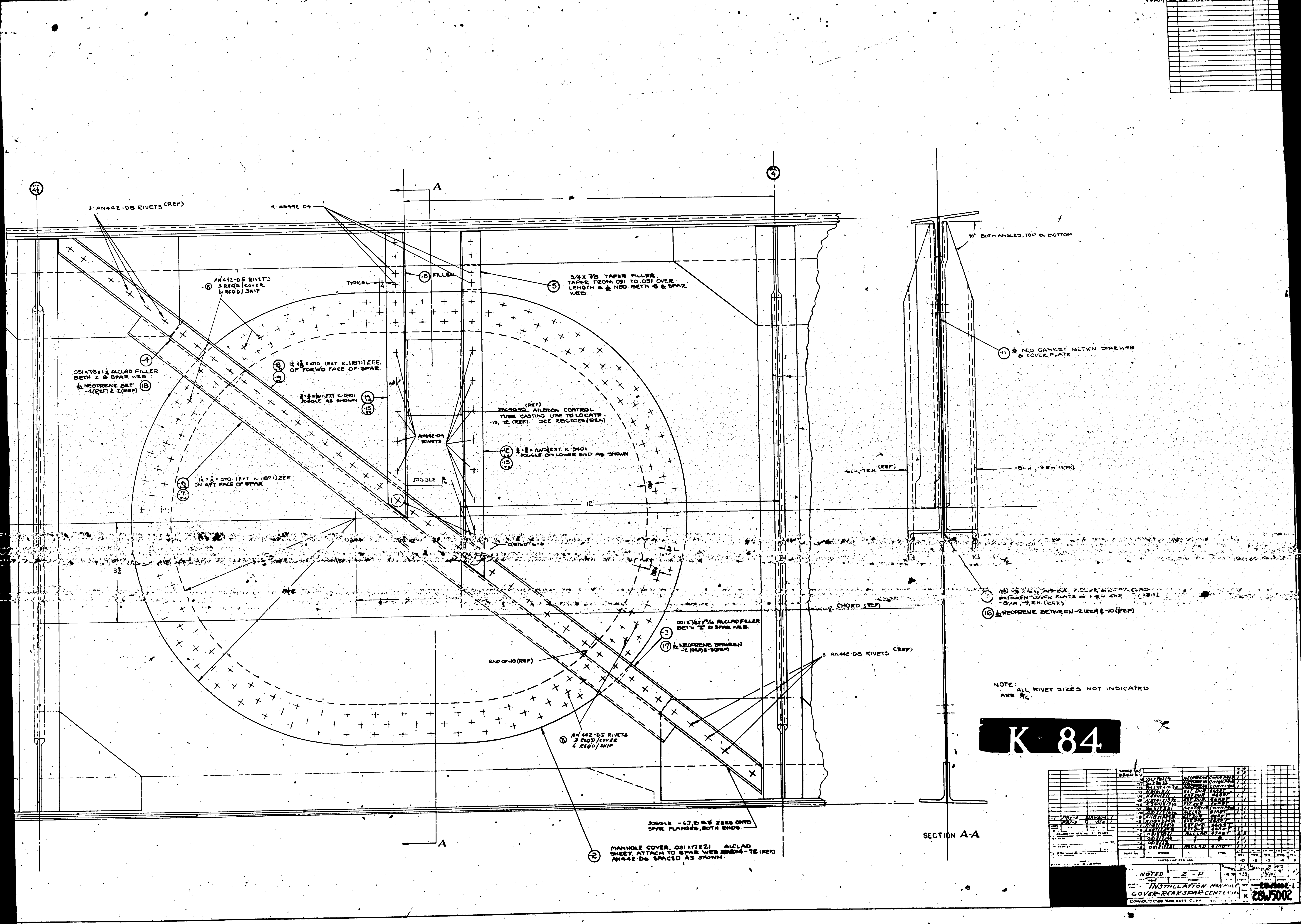

PLAN VIEW
SCALE 6"=1'-0"
View JJ
SCALE 6"=1'-0"
TYPICAL ATTACHMENT OF 28W6016 TO BULKHEAD
View HH
SCALE 6"=1'-0"
TYPICAL ATTACHMENT AT LOWER END OF CABLE GUARD TUBE
View A
View FF
SCALE 12"=1'-0"
R.H. OUTBOARD HOIST
View EE
SCALE 12"=1'-0"
R.H. INBOARD HOIST
View DD
SCALE 12"=1'-0"
L.H. INBOARD HOIST
View CC
SCALE 12"=1'-0"
L.H. OUTBOARD HOIST
FORWARD
FRONT SPAR
PATH OF CRANK
K 83



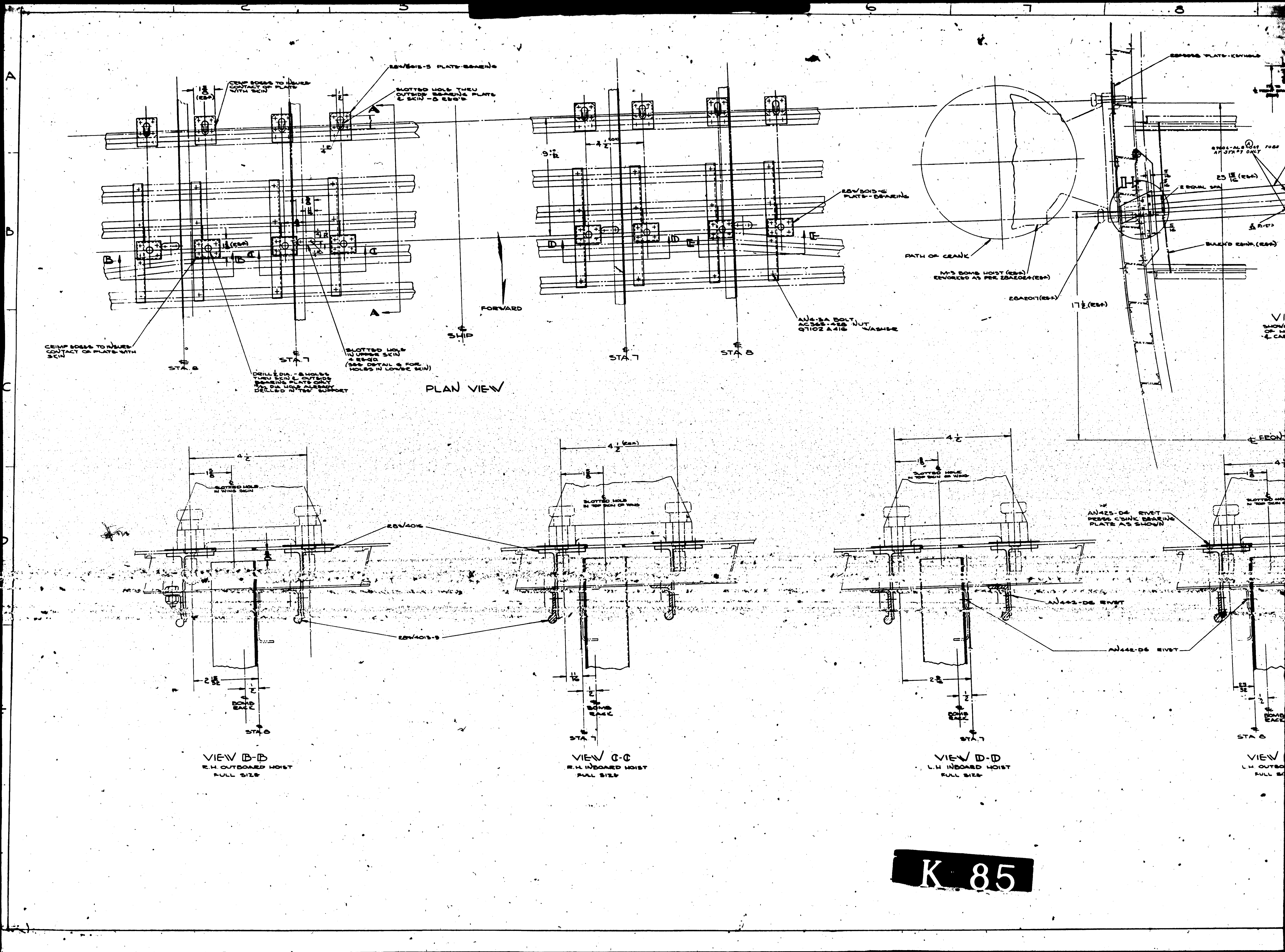
28F3030 PLATE-KEYHOLE
CUT SLOTTED HOLES IN LOWER SKIN SAME SIZE AS SHOWN IN UPPER SKIN LOCATE 2½ INBOARD OF STA #7 & 2½ OUTBOARD OF STA #6
28F3037 TUBE
28W3015-6 PLATE-BEARING
PATH OF CRANK
BL'KHD REINF. (REF)
TRIM BOTH ENDS 45°
AL. ALLOY ANGLE 24ST
AN4-5A BOLT
AC365-428 NUT
FORWARD
STA. 7
STA. 6
PLAN VIEW
SCALE 6"=1'-0"
View AA
SHOWING TYPICAL INSTAL. OF HOIST, SUPPORTS, & CABLE GUARD TUBE
SCALE: 6"=1'-0"
CHORD LINE
FRONT SPAR
HORIZ. REF
STRINGER (REF)
LOWER SKIN (REF)
GUARD TUBE (REF)
BULKHEAD (REF)
2 EQ. SPACES
28F2052 CLAMP
View HH
TYPICAL ATTACHMENT AT LOWER END OF CABLE GUARD TUBE
NOTES:
FINISH ALL PARTS
WING SKIN (REF)
GUARD TUBE (REF)
AN442-D6 RIVET
BEND ANGLE TO SUIT
View GG
TYPICAL ATTACHMENT AT UPPER END OF CABLE GUARD TUBE
BOMB RACK
HOIST CABLE
View EE
SCALE 12"=1'-0"
R. H. INBOARD HOIST
View DD
SCALE: 12"=1'-0"
L.H. INBOARD HOIST
View CC
SCALE 12"=1'-0"
L.H. OUTBOARD HOIST
FORM TO CONTOUR OF WING
TRIM LEG WITH OUTLINE OF "ZEE" STRINGER TO SUIT
K 83
CONSOLIDATED AIRCRAFT CORP.
INSTALLATION - TORPEDO HOIST
28W9013

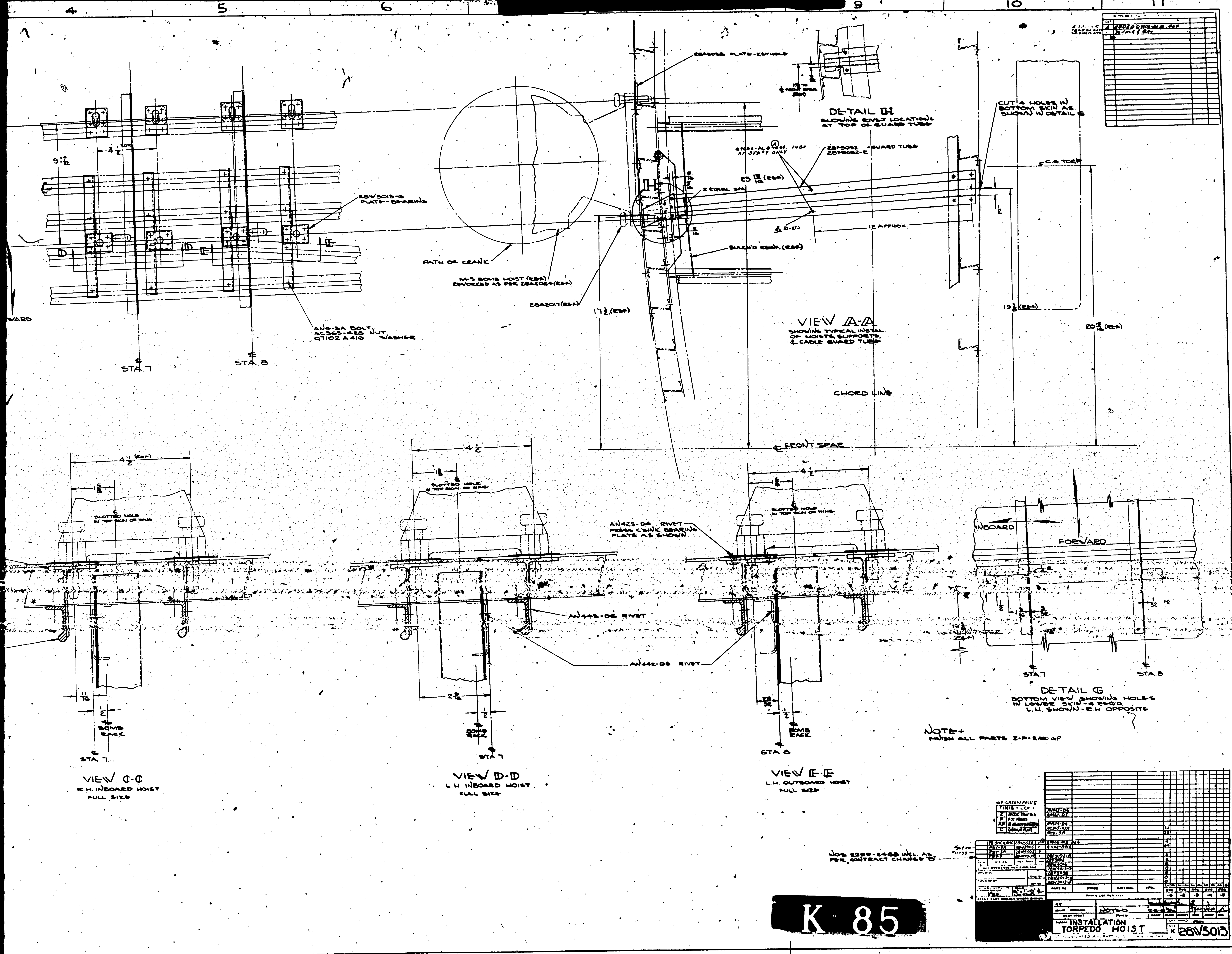


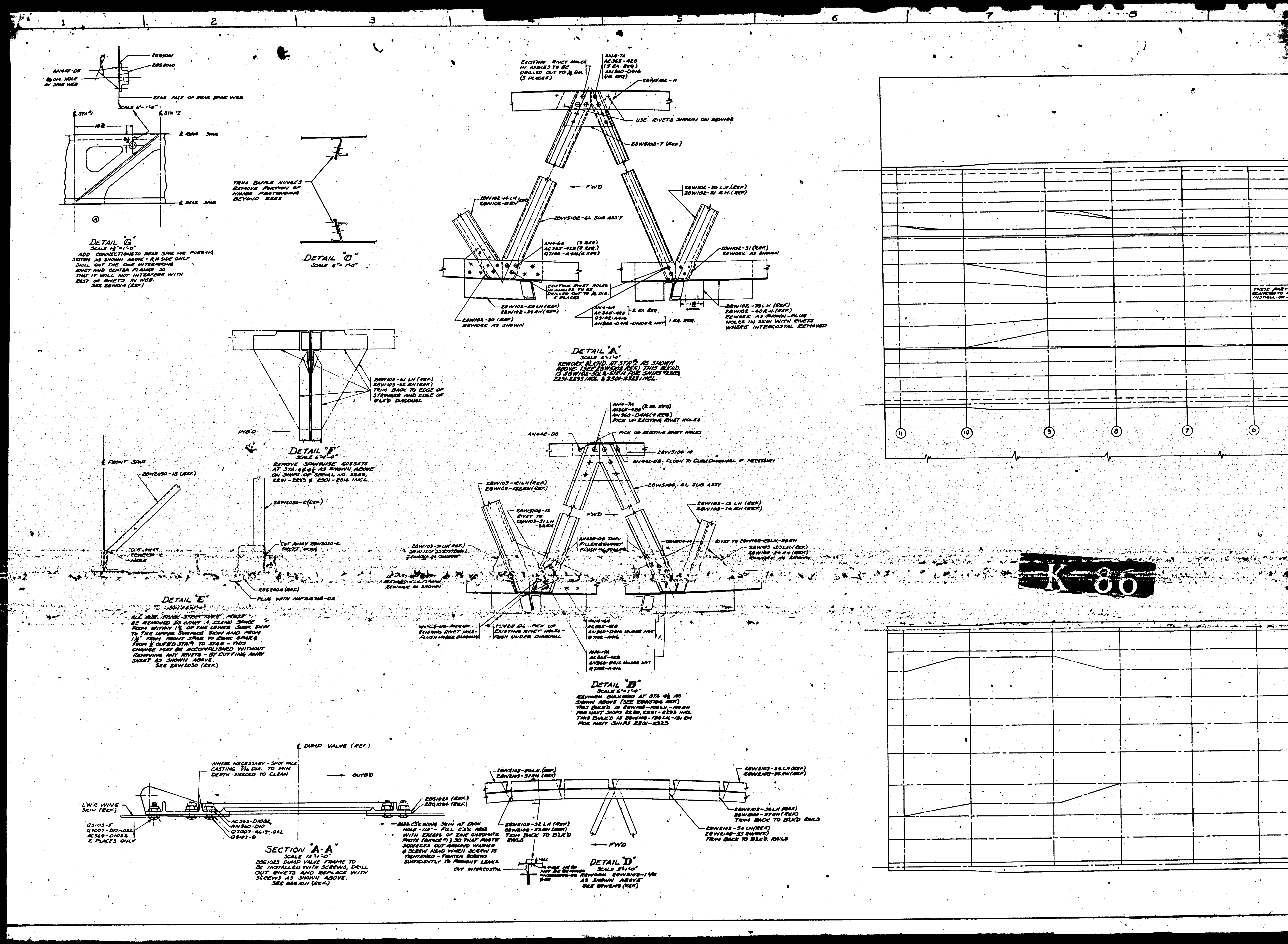
3-AN442-D8 RIVETS (REF)
4-AN442-D4
A
14
15° BOTH ANGLES, TOP & BOTTOM
3/4 X 7/8 TAPER FILLER. TAPER FROM .091 TO .051 OVER LENGTH & 1/32 NEO BET'N -5 & SPAR WEB.
AN442-D5 RIVETS 3 REQ'D/COVER 6 REQ'D/SHIP
-6 FILLER
TYPICAL
.051 X 7/8 X 1 1/8 ALCLAD FILLER BET'N Z & SPAR WEB
1/32 NEOPRENE BET -4(REF) & -Z(REF)
1 1/4 X 3/8 X .070 (EXT K-11871) ZEE OF FORW'D FACE OF SPAR
AILERON CONTROL TUBE CASTING USE TO LOCATE -13, -12 (REF) SEE 28C8005 (REF)
AN442-D4 RIVETS
JOGGLE ON LOWER END AS SHOWN
1/32 NEO GASKET BETW'N SPARWEB & COVER PLATE
1 1/4 X 3/8 X .070 (EXT K-11871) ZEE ON AFT FACE OF SPAR
JOGGLE 1/16
12
CHORD (REF)
1/32 NEOPRENE BETWEEN -Z (REF) & -10 (REF)
.051 X 7/8 X 1 3/4 ALCLAD FILLER BET'N "Z" & SPAR WEB.
1/32 NEOPRENE BETWEEN -Z (REF) & -3 (REF)
END OF -10 (REF)
3 AN442-D8 RIVETS (REF)
AN442-D5 RIVETS 3 REQ'D/COVER 6 REQ'D/SHIP
JOGGLE -6,7,8 & 9 ZEES ONTO SPAR FLANGES, BOTH ENDS.
MANHOLE COVER, .051 X 17 X 21 ALCLAD SHEET. ATTACH TO SPAR WEB -TE (REF) AN442-D6 SPACED AS SHOWN.
SECTION A-A
NOTE: ALL RIVET SIZES NOT INDICATED ARE 5/32.
K 84
NOTED
Z-P
INSTALLATION-MANHOLE COVER-REAR SPAR CENTER SEC.



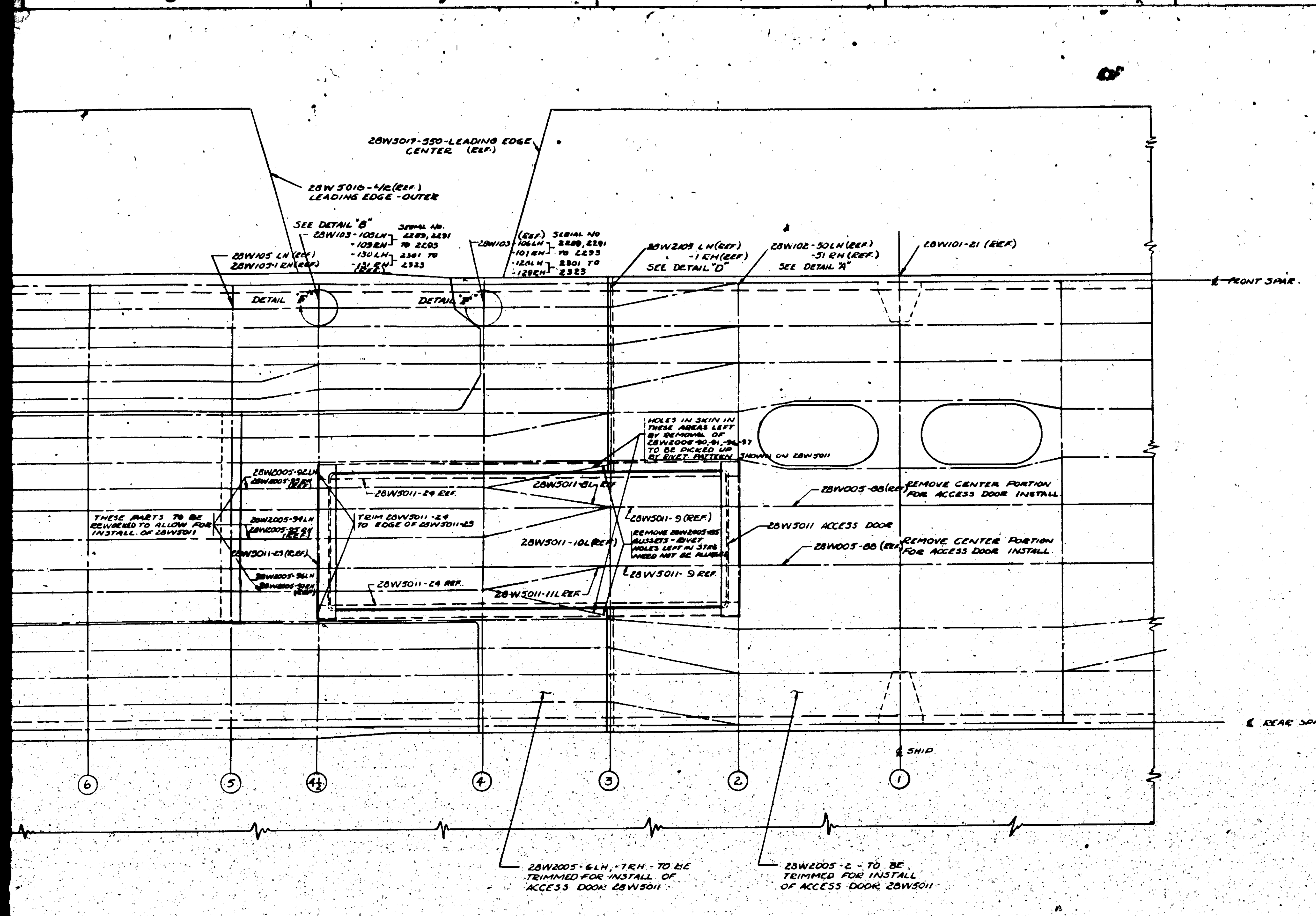
3-AN442-D8 RIVETS (REF)
4-AN442-D4
A
14
TYPICAL
-6 FILLER
5 3/4 X 7/8 TAPER FILLER. TAPER FROM .091 TO .051 OVER LENGTH & 1/32 NEO. BETN -6 & SPAR WEB.
AN442-D5 RIVETS 3 REQD/COVER 6 REQD/SHIP
4 .051 X 7/8 X 1 1/2 ALCLAD FILLER BETN Z & SPAR WEB
18 1/32 NEOPRENE BET -4(REF) & -Z(REF)
8 1 1/4 x 3/4 x .070 (EXT K-11871) ZEE. OF FORWD FACE OF SPAR.
JOGGLE AS SHOWN
AILERON CONTROL TUBE CASTING USE TO LOCATE -13, -12 (REF) SEE 28C6005 (REF)
AN442-D4 RIVETS
12 JOGGLE ON LOWER END AS SHOWN
1 1/4 x 3/4 x .070 (EXT K-11871) ZEE. ON AFT FACE OF SPAR
JOGGLE 1/32
12
CHORD (REF)
.051 X 7/8 X 1 3/16 ALCLAD FILLER BET'N "Z" & SPAR WEB.
3
17 1/32 NEOPRENE BETWEEN -Z (REF) & -3 (REF)
END OF -10 (REF)
3 AN442-D8 RIVETS (REF)
AN 442-D5 RIVETS 3 REQD/COVER 6 REQD/SHIP
JOGGLE -6,7,8 & 9 ZEES ONTO SPAR FLANGES, BOTH ENDS.
2 MANHOLE COVER, .051 X 17 X 21 ALCLAD SHEET. ATTACH TO SPAR WEB 28W5014-7Z (REF) AN442-D6 SPACED AS SHOWN.
10° BOTH ANGLES, TOP & BOTTOM
11 1/32 NEO GASKET BETWN SPAR WEB & COVER PLATE
-8 LH, -9 RH (REF)
16 1/32 NEOPRENE BETWEEN -Z (REF) & -10 (REF)
NOTE: ALL RIVET SIZES NOT INDICATED ARE 3/16
SECTION A-A
K 84
INSTALLATION - MANHOLE COVER - REAR SPAR CENTER SEC
CONSOLIDATED AIRCRAFT CORP.
28W5002


PLAN VIEW
FORWARD
STA. 7
STA 8
VIEW B-B
R.H. OUTBOARD HOIST
FULL SIZE
VIEW C-C
R.H. INBOARD HOIST
FULL SIZE
VIEW D-D
L.H. INBOARD HOIST
FULL SIZE
PATH OF CRANK
AN442-D6 RIVET
K 85

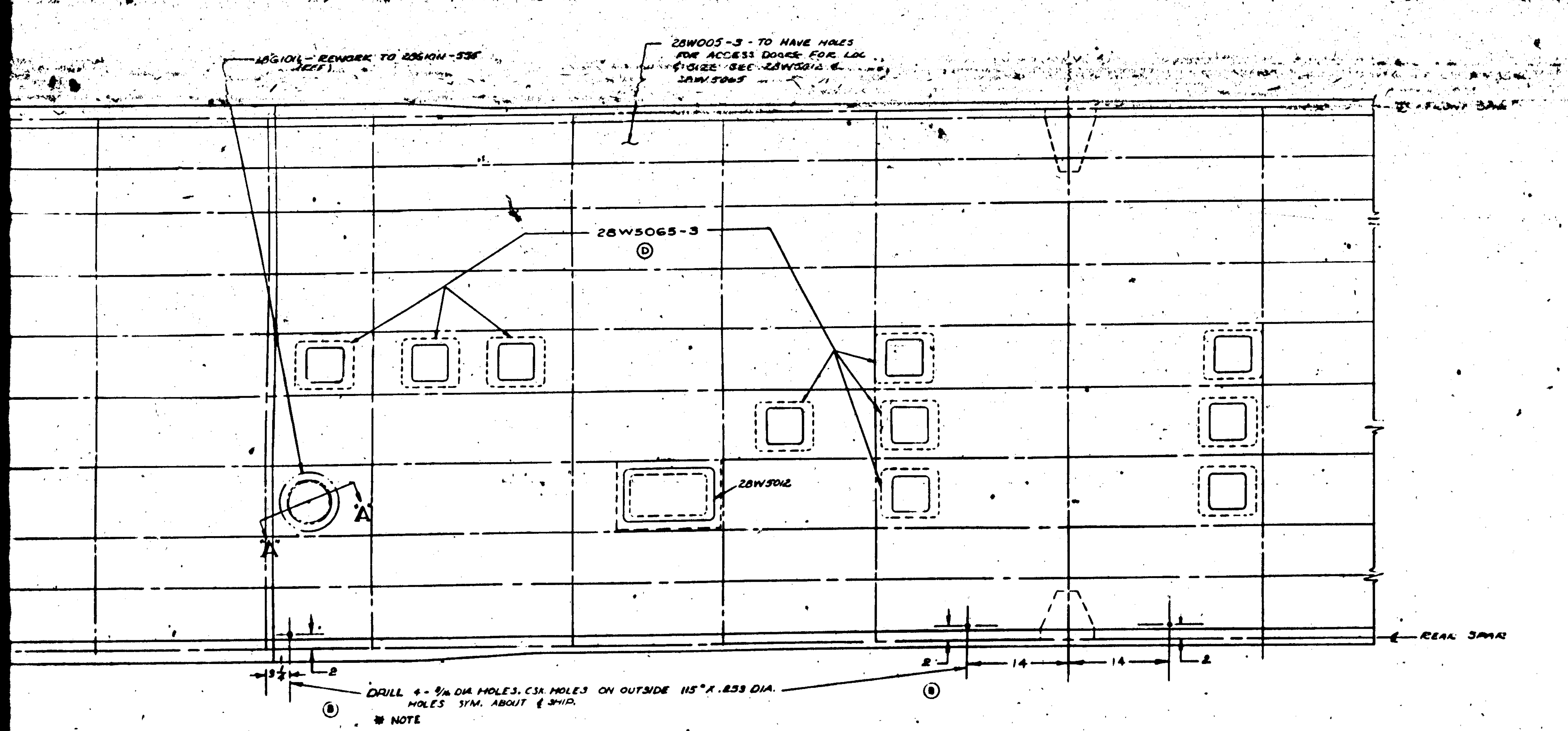

DETAIL H
SHOWING RIVET LOCATIONS AT TOP OF GUARD TUBE
CUT 4 HOLES IN BOTTOM SKIN AS SHOWN IN DETAIL G
PATH OF CRANK
VIEW A-A
SHOWING TYPICAL INSTAL OF HOISTS, SUPPORTS, & CABLE GUARD TUBE
CHORD LINE
FRONT SPAR
STA. 7
STA. 8
VIEW C-C
R.H. INBOARD HOIST
FULL SIZE
VIEW D-D
L.H. INBOARD HOIST
FULL SIZE
VIEW E-E
L.H. OUTBOARD HOIST
FULL SIZE
DETAIL G
BOTTOM VIEW SHOWING HOLES IN LOWER SKIN - 4 REQD. L.H. SHOWN - R.H. OPPOSITE
NOTE -
FINISH ALL PARTS Z-P-2AE-GP
INBOARD
FORWARD
BOMB RACK
INSTALLATION TORPEDO HOIST
28W5013
K 85



DETAIL "G"
SCALE 1½"=1'-0"
ADD CONNECTIONS TO REAR SPAR FOR PURGING SYSTEM AS SHOWN ABOVE - R.H. SIDE ONLY
DRILL OUT THE ONE INTERFERING RIVET AND CENTER FLANGE SO THAT IT WILL NOT INTERFERE WITH REST OF RIVETS IN WEB.
SEE 28W014 (REF.)
TRIM BAFFLE HINGES REMOVE PORTION OF HINGE PROTRUDING BEYOND ZEES
DETAIL "C"
SCALE 6"=1'-0"
DETAIL "A"
SCALE 6"=1'-0"
REWORK BLKHD. AT STA. 2 AS SHOWN ABOVE. (SEE 28W5102 REF.) THIS BLKHD. IS 28W102-50L & 51RH FOR SHIPS 2280, 2291-2293 INCL. & 2301-2323 INCL.
DETAIL "F"
SCALE 6"=1'-0"
REMOVE SPANWISE GUSSETS AT STA. 4 & 4½ AS SHOWN ABOVE ON SHIPS OF SERIAL NO. 2289, 2291-2293 & 2301-2316 INCL.
FWD
INB'D
DETAIL "E"
DETAIL "B"
SCALE 6"=1'-0"
REWORK BULKHEAD AT STA. 4½ AS SHOWN ABOVE (SEE 28W5104 REF.)
SECTION "A-A"
SCALE 12"=1'-0"
28G1023 DUMP VALVE FRAME TO BE INSTALLED WITH SCREWS, DRILL OUT RIVETS AND REPLACE WITH SCREWS AS SHOWN ABOVE.
SEE 28G1011 (REF.)
℄ DUMP VALVE (REF.)
OUTB'D
DETAIL "D"
SCALE 3"=1'-0"
K-86



* NOTE: WHEN FUEL CELLS ARE USED THESE HOLES WILL BE LEFT OPEN. WHEN INTEGRAL TANK IS USED, PLUG HOLES WITH AC385-10-6, AC365-1032, Q7108-AL10 UNDER BOLT HEAD AND [illegible] UNDER NUT. APPLY ZINC CHROMATE PASTE [illegible]



GENERAL NOTES:

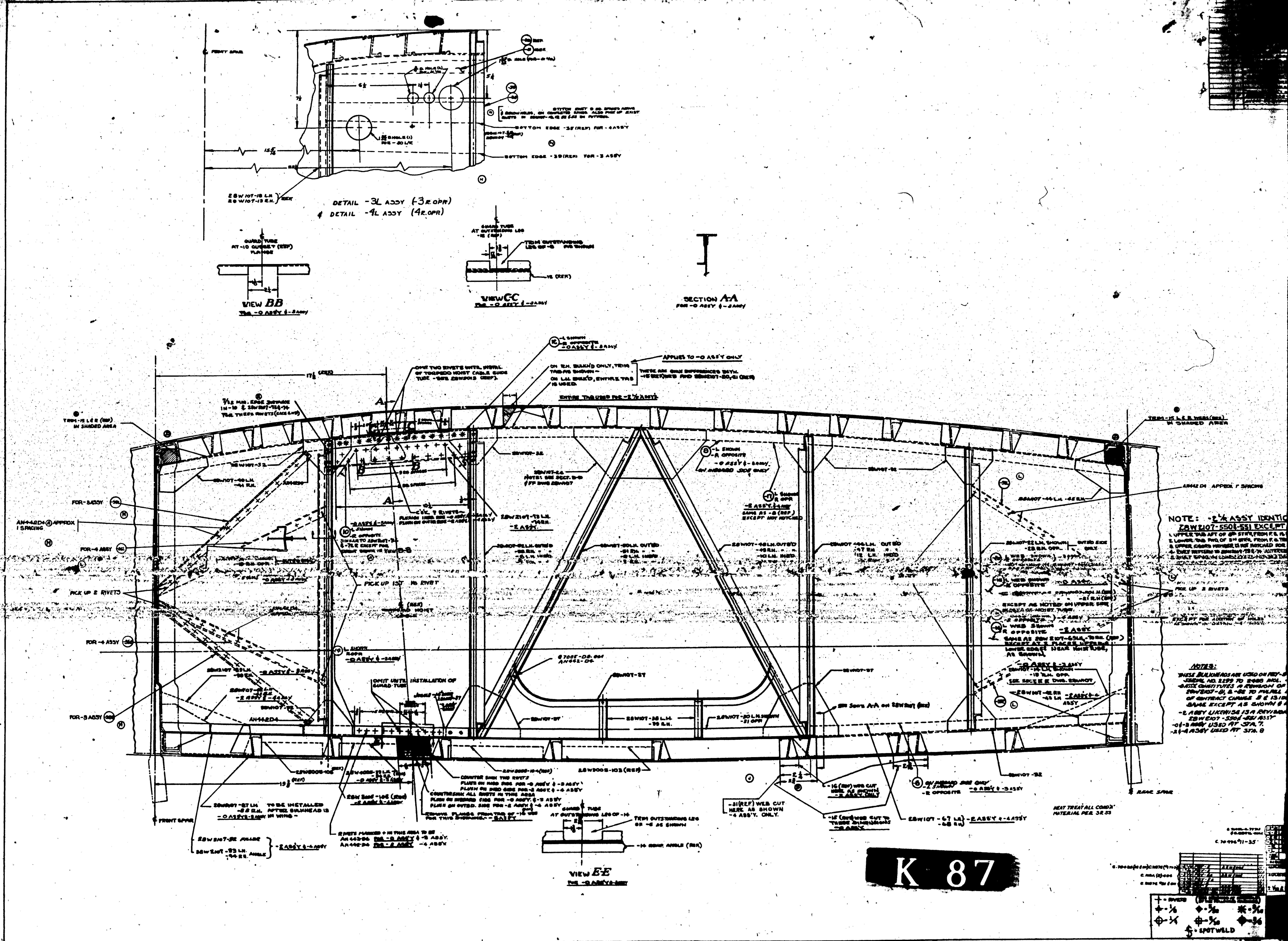
1. THIS DRAWING TO BE USED TO ACCOMPLISH CONTRACT CHANGE 'W' ON PBY-5 SHIPS BUREAU SERIAL NOS. 2289, 2291 TO 2293 INCL. AND 2301 TO 2323 INCL. (27 SHIPS).
2. ALL WORK INDICATED ON THIS DRAWING TO BE DONE BY NAVY PERSONNEL.
3. ALL PARTS CALLED IN B/M OF THIS DRAWING TO BE FURNISHED TO NAVY BY C.A.C.
4. THIS DRAWING SHOWS ONLY CHANGES TO BE MADE IN EXISTING SHIPS (BUILT AS PER 28W4005-550 & -555) TO MAKE PROVISIONS FOR SELF SEALING FUEL CELL INSTALLATION
5. THE FOLLOW PROVISIONS TO BE ACCOMPLISHED AT ANY TIME PRIOR TO FUEL CELL INSTALLATION:
   - A. REWORK UPPER SURFACE SKINS AND STRINGERS TO ACCOMMODATE FUEL CELL ACCESS DOOR INSTALL. INSTALL ACCESS DOOR AS PER 28W5011 AND THIS DRAWING.
   - B. INSTALL FUEL CELL MANIFOLD ACCESS DOORS ON L'WR SURFACE AS PER 28W5065
   - C. INSTALL FUEL CELL COUPLING ACCESS DOOR ON LWR SURFACE AS [illegible]W5012.
   - D. REWORK BULKHEADS AT STA. 2 & 4 [illegible] ACCOMMODATE SELF SEALING FUEL CELLS (SEE DETAILS 'A' & 'B')
   - E. REMOVE INTERCOSTALS AT STA. 3 (SEE DETAIL 'D')
   - F. REMOVE SPANWISE GUSSETS AT STA. 4 & 4½ (SEE DETAIL 'F')
   - G. TRIM BAFFLE HINGES (SEE DETAIL 'C')
   - H. REMOVE AUX. FUEL TANK STRUCTURE 28W2030 (SEE DETAIL 'E')
   - I. REMOVE AUX. FUEL TANK FILLER 28G2032
   - J. [illegible] METHOD OF FUEL DRAINAGE [illegible] (SEE 28G5100)
   - [illegible]
   - L. ON FRONT SPAR, [illegible] FLANGE WITH 28G5058 PIPE FLANGE FOR CARB. VAPOR CHAMBER VENT RETURN TO TANK OR CELLS.
   - M. INSTALL BULKHEAD CURTAIN FASTENERS AT STA. 2, 3, 4, 4½ (SEE 21-28-090 INSTRUCTION REPORT)
   - N. ATTACH ADDITIONAL VENT [illegible] ON TANK COVER AS SHOWN ON 28G3016.
   - O. REWORK SIGHT GAUGE FLANGE (28G3005) AS SHOWN IN SECTION B-B ON 28G3005 AND ADD 28G3026 FITTING AS SHOWN IN VIEW "G" ON 28G3002
   - P. ADD PURGING SYSTEM 28G5054
   - Q. TREAT ALL RAW EDGES WITH CHROMIC ACID SOL. & FINISH WITH TWO COATS OF P-27 PRIMER.
6. THE FOLLOWING PROVISIONS NOT TO BE ACCOMPLISHED UNTIL THE TIME OF INSTALLATION OF THE FUEL CELLS:
   - REMOVE DUMP VALVE AND DUMP VALVE CABLE ASSEM. - ADD COVER PLATE (28G5036) - COVER TO BE DELIVERED BLANK.
   - B. REPLACE 28G5039-5 COVER PLATES AT SUMP WITH 28G5039-6 & 28G5027 - COVER FRONT AND REAR DRAIN HOLES - (SEE 28G5100)
   - C. MAKE FUEL CELL INSTALLATION AS PER 28G5040-2 4/E & 21-28-059 REPORT
7. PRINTS OF THE FOLLOWING DRAWINGS TO BE FURNISHED TO NAVY FOR REFERENCE FOR MAKING CELL PROVISIONS AS SHOWN ON THIS DRAWING:

28G1011	28G5058	28W2013
1026	5060	2014
1036	5061	2030
3002	5100	2103
3005	5101	4001
3010	5102	4005
3026	5103	5011
5027	28G5104	5012
5036	28W005	5022
5039	013	5043
5040	014	5065
5043	102	5102
5044	103	28W5104
28G5054	28W2005	21-28-090 REPORT
		21-28-059 REPORT

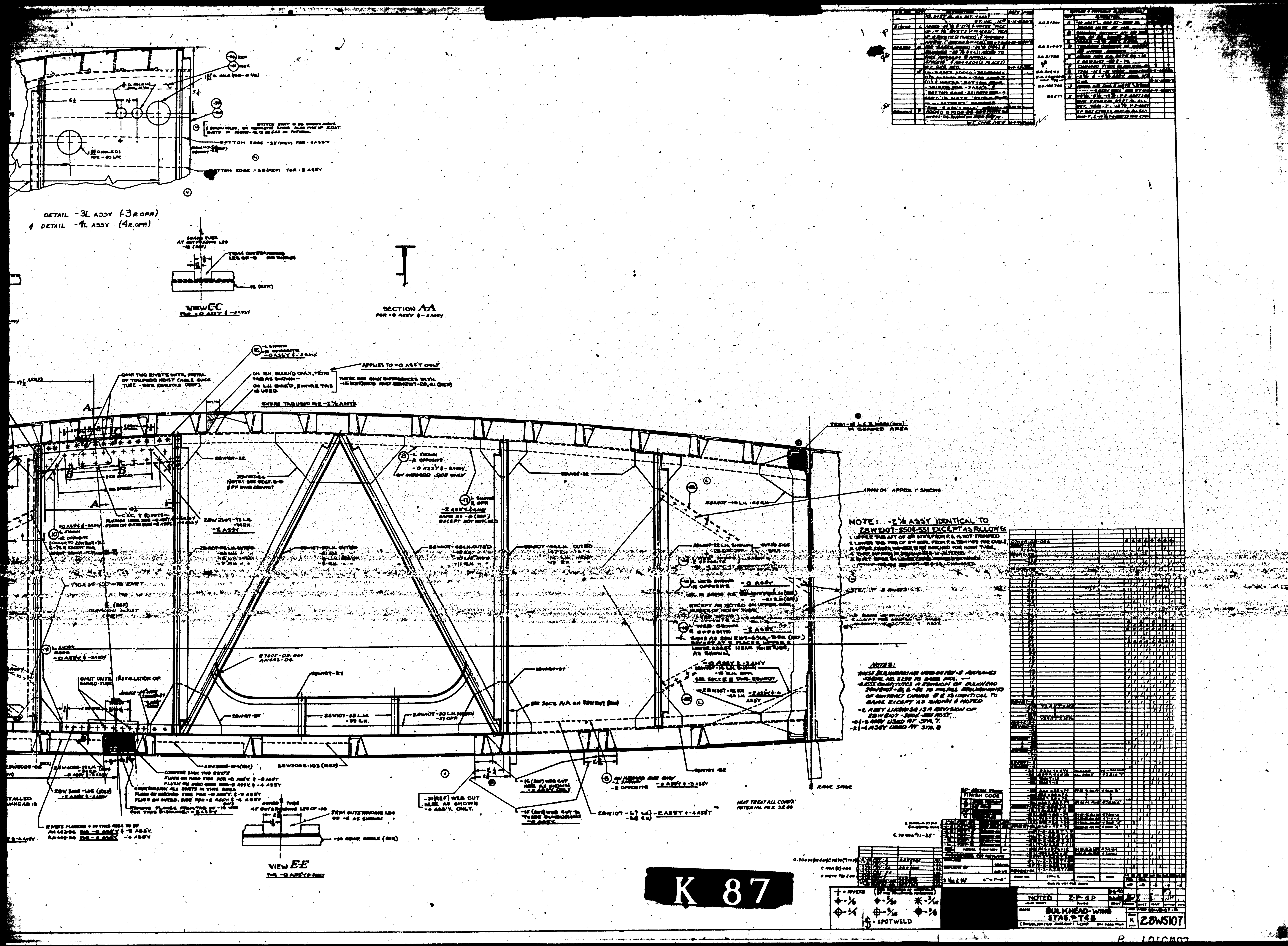
SEE NOTE #1
C. 70486 (31 SETS)

NAME INSTRUCTION DWG. - [illegible] FUEL CELL PROVISIONS
CONSOLIDATED AIRCRAFT CORP.
K 28W5043

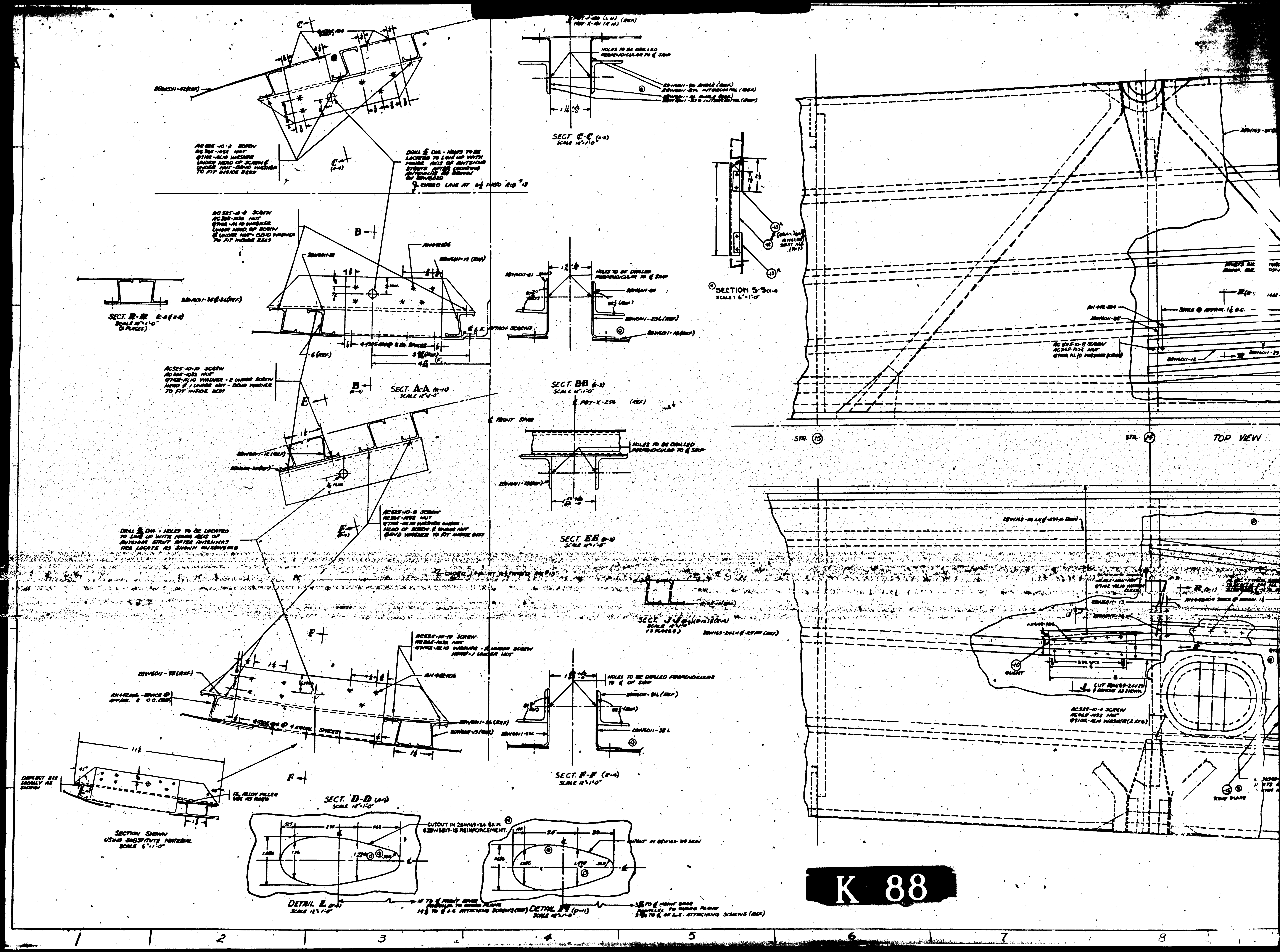
K 86

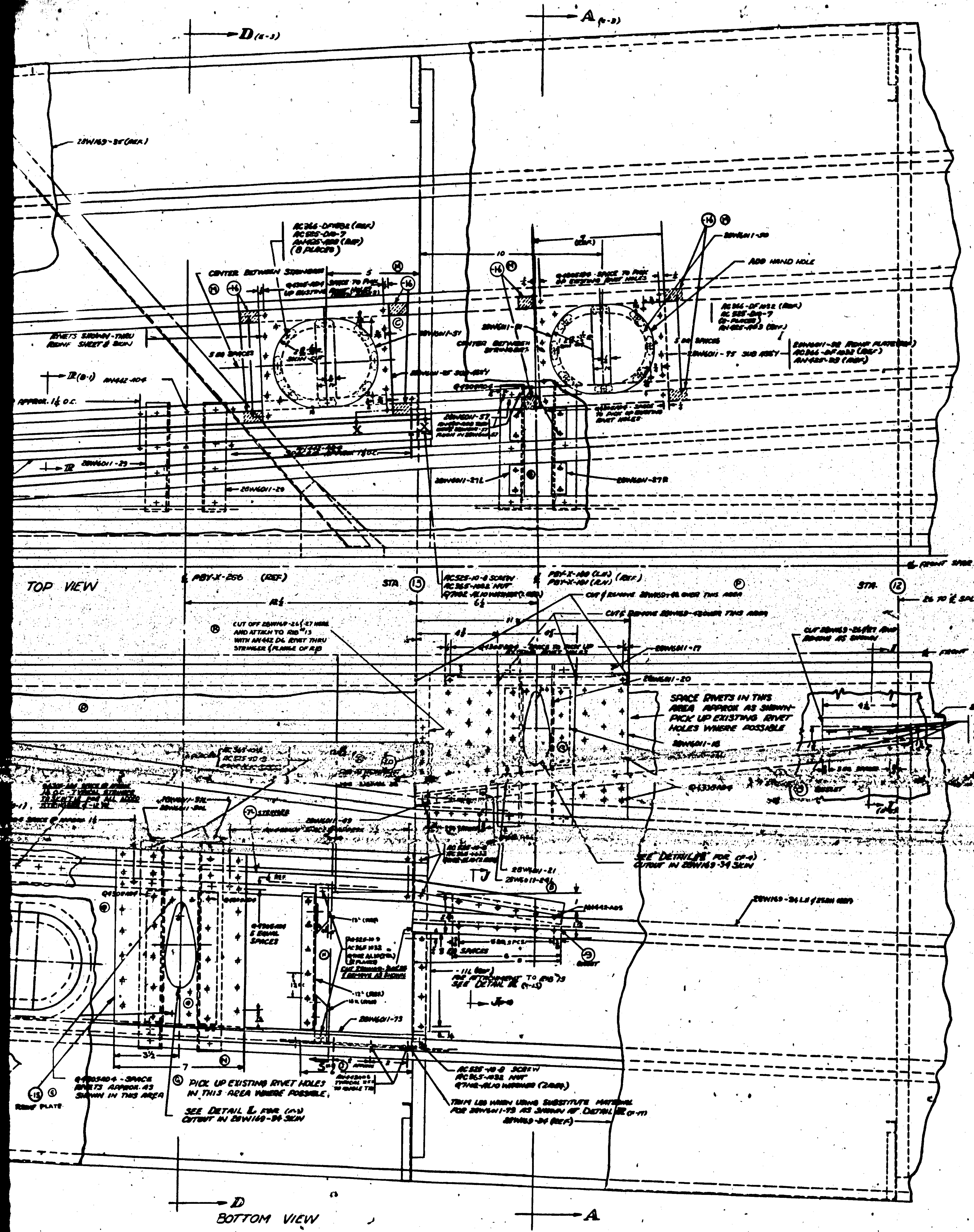


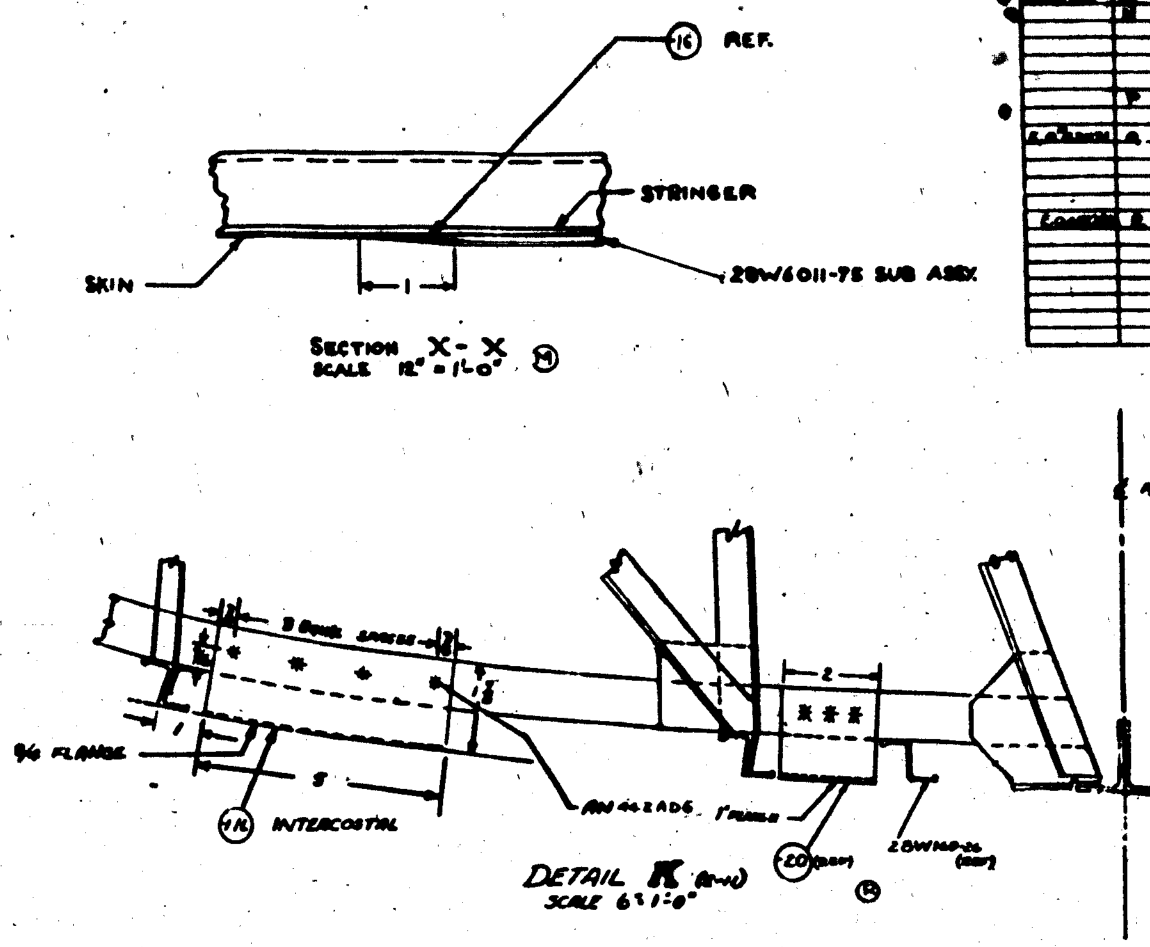
DETAIL -3L ASSY (-3R OPP)
DETAIL -4L ASSY (4R OPP)
VIEW BB
VIEW CC
SECTION A-A
APPLIES TO -0 ASS'Y ONLY
PICK UP 2 RIVETS
PICK UP 1ST No RIVET
FOR -3 ASSY
FOR -4 ASSY
NOTE:
NOTES:
HEAT TREAT ALL COND'N
FRONT SPAR
REAR SPAR
VIEW E-E
K 87
SPOTWELD



DETAIL -3L ASSY (-3R OPR)
DETAIL -4L ASSY (4R OPR)
VIEW C-C
SECTION A-A
NOTE: -2 & 4 ASSY IDENTICAL TO
28W2107-550 & -551 EXCEPT AS FOLLOWS:
1. UPPER TAB AFT OF 6th STIFF. FROM F.S. IS NOT TRIMMED
2. LOWER TAB FWD OF 3rd STIFF. FROM F.S. TRIMMED FOR CABLE.
NOTES:
THESE BULKHEADS ARE USED ON PBY-5 AIRPLANES
SERIAL NO. 2299 TO 2488 INCL.
-0 & -2 ASSY USED AT STA. 7.
-2 & -4 ASSY USED AT STA. 8
VIEW E-E
+ = RIVETS
$ = SPOTWELD
NOTED
BULKHEAD-WING
STAS. 7 & 8
CONSOLIDATED AIRCRAFT CORP.
K
28W5107
K 87


SECT. C-C
SCALE 12"=1'-0"
SECTION S-S
SCALE 6"=1'-0"
SECT. A-A
SCALE 12"=1'-0"
SECT. BB
SCALE 12"=1'-0"
SECT. E-E
SCALE 12"=1'-0"
SECT. F-F
SCALE 12"=1'-0"
SECT. D-D
SCALE 12"=1'-0"
HOLES TO BE DRILLED PERPENDICULAR TO ℄ SHIP
STA. 15
STA. 14
TOP VIEW
SECTION SHOWN
USING SUBSTITUTE MATERIAL
SCALE 6"=1'-0"
DETAIL L
DETAIL M
K 88





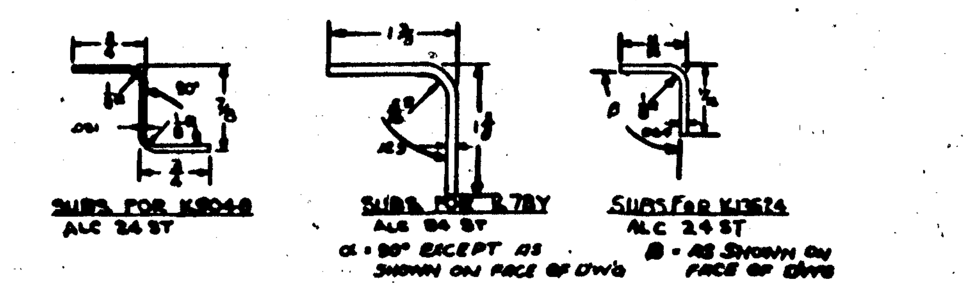
SERVICE DRAWING ONLY-TO BE ACCOMPANIED BY DWG 28W6011 & 28W6029

GENERAL NOTES

1. THIS DRAWING TO BE USED IN MAKING PROVISIONS FOR INSTALLATION OF TRANSMITTING & RECEIVING ANTENNAS. SHEET #1 FOR RECEIVING ANTENNA. SHEET #2 FOR TRANSMITTING ANTENNA (RH. ONLY)
2. THIS DRAWING SHOWS ONLY CHANGES TO BE MADE IN EXISTING SHIPS (BUILT AS PER 28W169-100 & -101) THIS COVERS SHIPS BEARING BUREAU SERIAL NOS. 2456-2468 INC, 7243-7302 INC & 9997R-08003 INC, 02548-02577 INC, & 04399-04420 INC. Ⓡ
3. ALL WORK INDICATED ON THIS DRAWING TO BE DONE ON SHIPS IN SERVICE BY NAVY PERSONNEL
4. ALL PARTS CALLED IN B/M OF THIS DRAWING TO BE FURNISHED TO NAVY BY C.A.C.
5. THE FOLLOWING PROVISIONS TO BE ACCOMPLISHED FOR RECEIVER ANTENNA INSTALLATION:
   a. MAKE CUTOUT IN 28W169-35 SKIN AND INSTALL ACCESS DOORS 28W6011-51 AS SHOWN
   b. [illegible]
   c. [illegible]
   d. ADD STRUCTURE FOR SUPPORTING ANTENNA AS SHOWN
   e. RIVETS THAT ARE REMOVED IN MAKING [illegible] SAME SIZE RIVETS.
   f. TREAT ALL RAW EDGES WITH CHROMIC ACID SOLUTION AND FINISH WITH TWO COATS OF P-27 PRIMER
   g. CUT AND REMOVE PORTION OF 28W169-[illegible] FILLER STRIPS AS SHOWN - DRILL OUT RIVETS NECESSARY FOR ACCOMPLISHING THIS ITEM AND REPAIRS.
   h. SEE 28PT307 FOR INST OF MATCH UNIT IN L.E.
   j. SEE 28PT309 FOR LOCATING DIMENSIONS FOR INSTALLATION OF MATCHING UNITS Ⓚ

SUBSTITUTE SECTIONS-

IN THE EVENT THAT SOME EXTRUDED SHAPES MAY NOT BE OBTAINED FOR THIS REWORK, THE FOLLOWING BENT SECTIONS MAY BE USED-



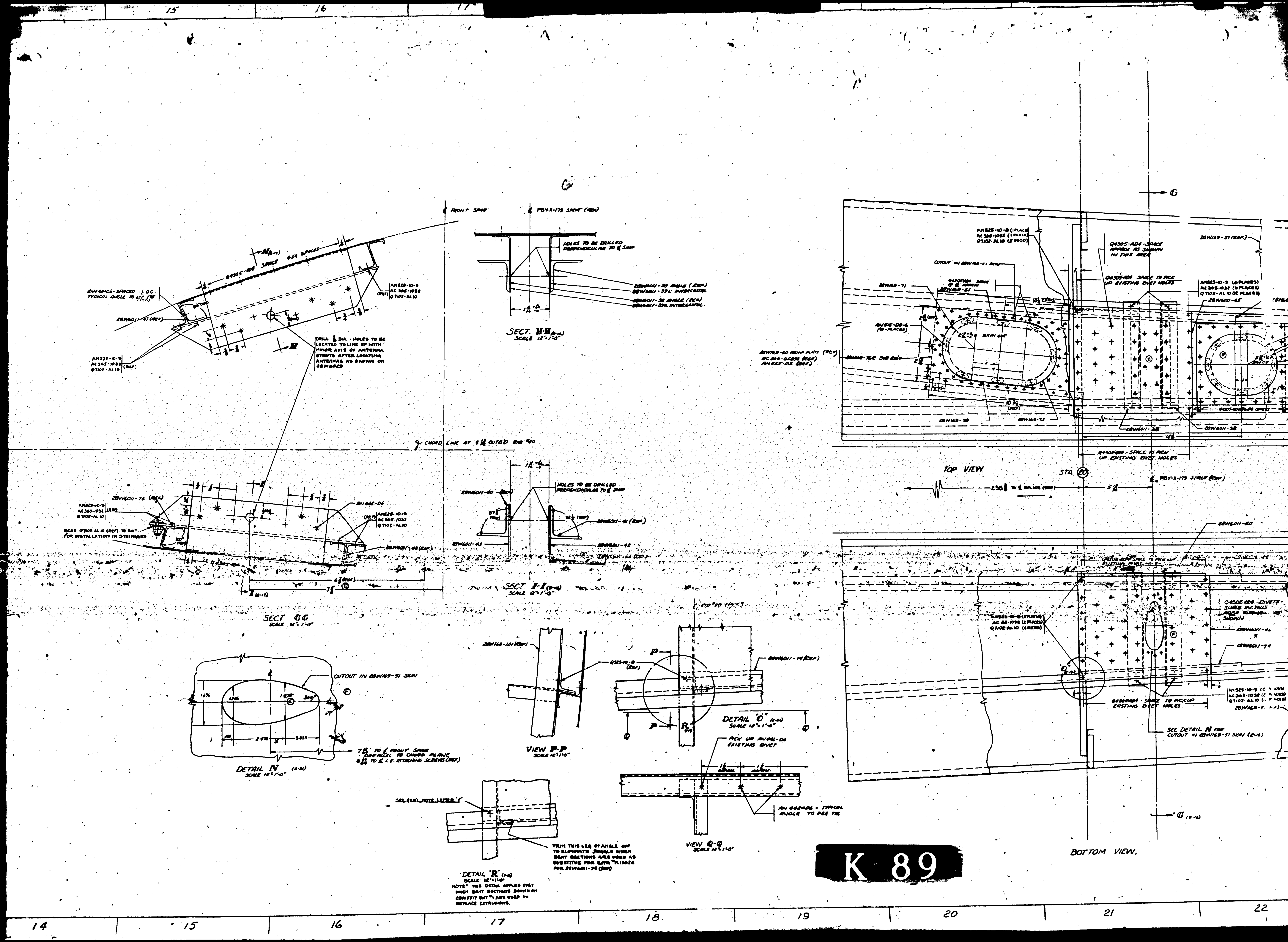
WHEN USING SUBSTITUTE MATERIAL THE FOLLOWING ITEMS MUST BE OBSERVED:
1. DIMENSIONS OF PARTS MAY VARY FROM DIMENSIONS ON THIS DRAWING DUE TO DIFFERENCES IN EXTRUDED SECTIONS AND BENT SECTIONS
2. INCREASE SCREW LENGTHS IF NECESSARY TO GIVE ADEQUATE GRIP FOR SCREW

FINISH CODE

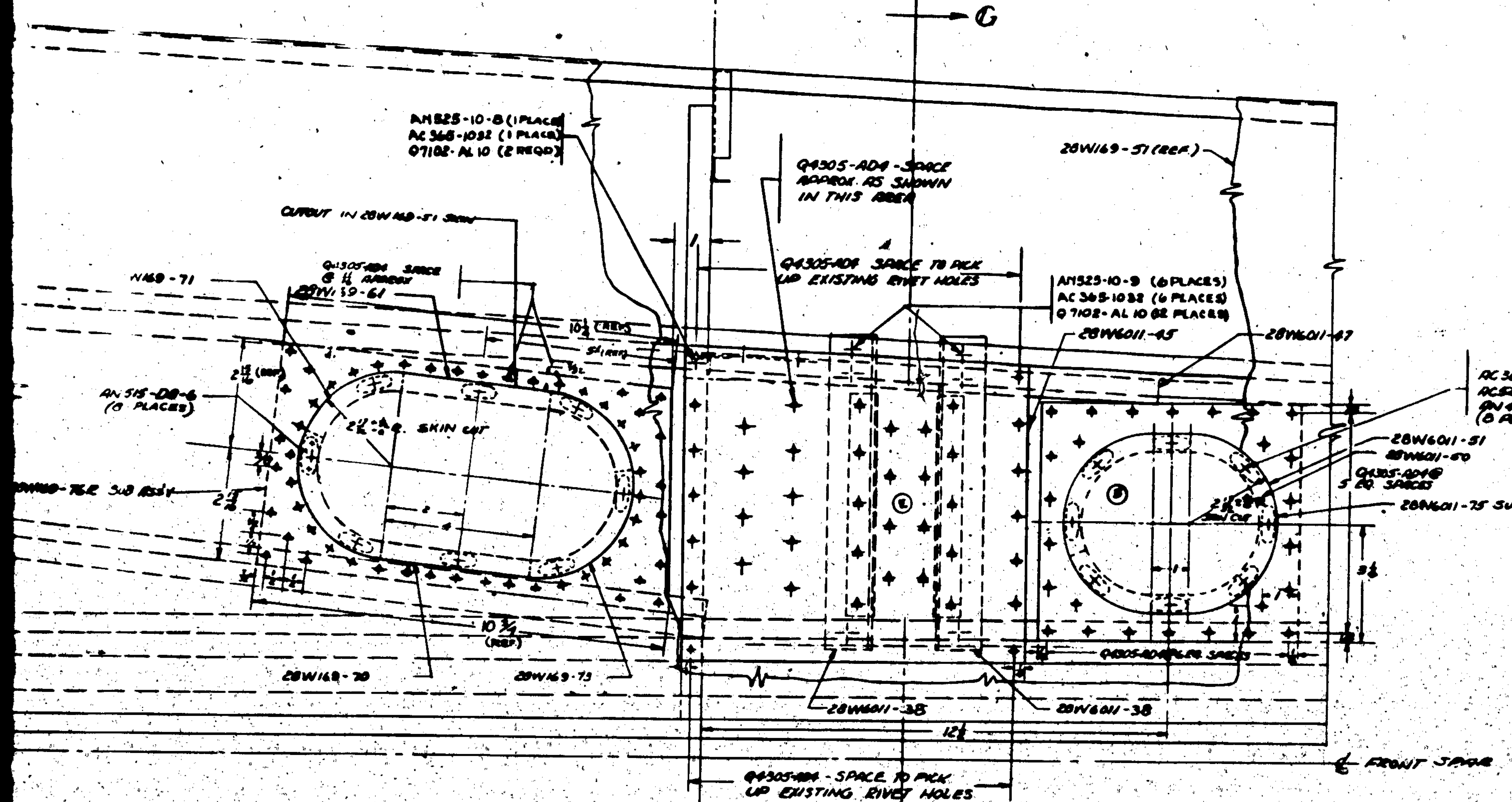
K 88

28W5517 SHEET #1

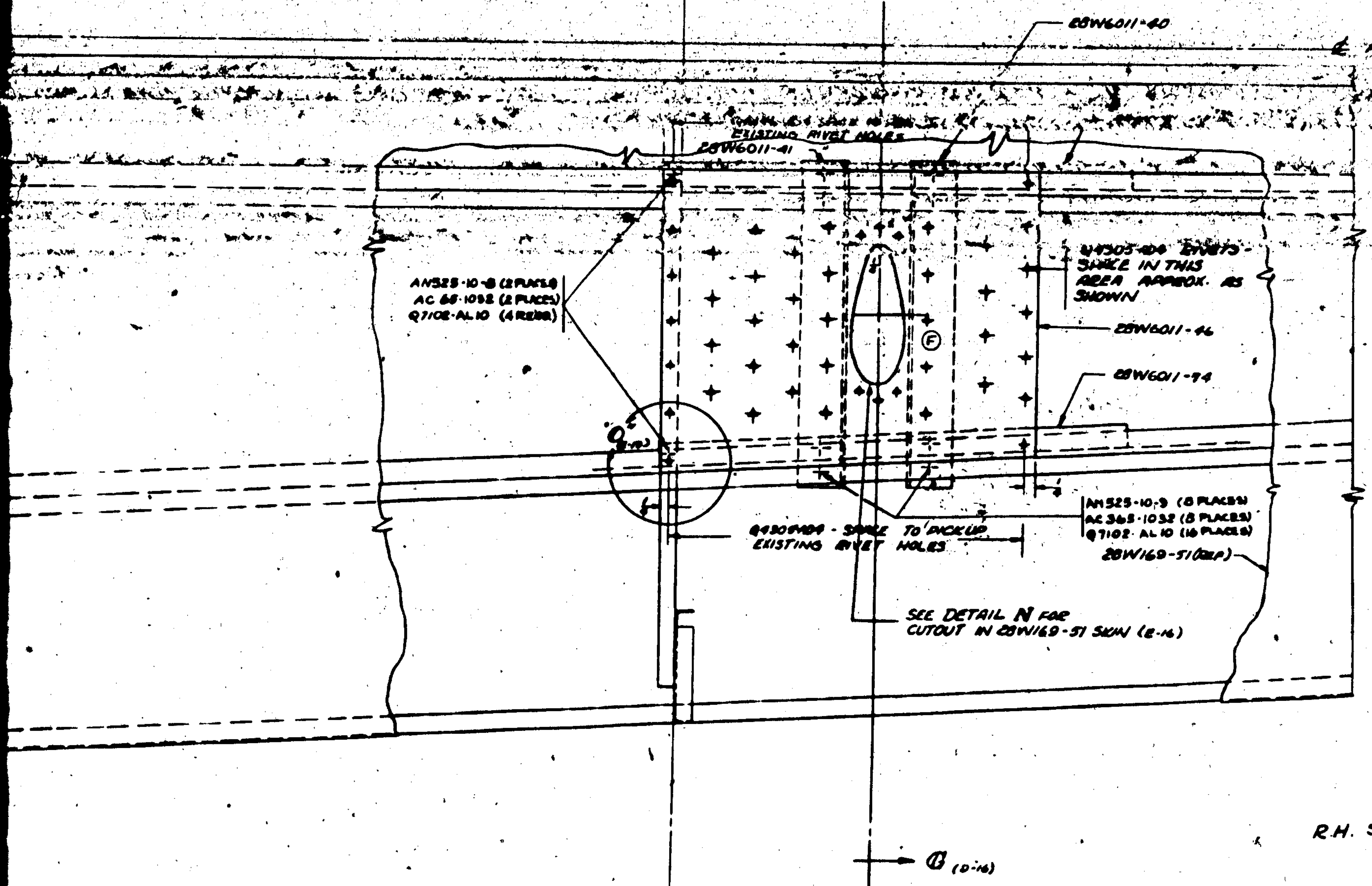
9 10 11 12 13



SECT. G-G
SCALE 12"=1'-0"
SECT. H-H
SCALE 12"=1'-0"
SECT. I-I
SCALE 12"=1'-0"
TOP VIEW
BOTTOM VIEW.
DETAIL N
SCALE 12"=1'-0"
VIEW P-P
SCALE 12"=1'-0"
DETAIL "O"
SCALE 12"=1'-0"
VIEW Q-Q
SCALE 12"=1'-0"
DETAIL "R"
SCALE: 12"=1'-0"
NOTE: THIS DETAIL APPLIES ONLY WHEN BENT SECTIONS SHOWN ON CONSEPT SHT 1 ARE USED TO REPLACE EXTRUSIONS.
FRONT SPAR
PBY-X-179 STRUT (REF)
HOLES TO BE DRILLED PERPENDICULAR TO ℄ SHIP
CHORD LINE AT 5 1/4 OUTB'D RIB #20
CUTOUT IN 28W169-51 SKIN
SEE DETAIL N FOR CUTOUT IN 28W169-51 SKIN
PICK UP AN442-D6 EXISTING RIVET
AN 442AD6 - TYPICAL ANGLE TO BEE TIE
TRIM THIS LEG OF ANGLE OFF TO ELIMINATE JOGGLE WHEN BENT SECTIONS ARE USED AS SUBSTITUTE FOR EXTR "K13026 FOR 28W6011-74 (REF)
STA. 20
K 89
14
15
16
17
18
19
20
21
22



TOP VIEW



R.H. SHOWN

BOTTOM VIEW

SERVICE DRAWING ONLY - TO BE ACCOMPANIED BY D'WG 28W6011 & 28W6029

GENERAL NOTES:

1. PROVISIONS FOR INSTALLING TRANSMITTING ANTENNA TO BE MADE ON R.H. SIDE ONLY
2. THE FOLLOWING PROVISIONS TO BE ACCOMPLISHED FOR TRANSMITTER ANTENNA INSTALLATION:
   a. MAKE CUTOUT IN 28W169-51 SKIN AND ADD ACCESS DOOR 28W169-71 & 28W6011-51 AS SHOWN
   b. MAKE CUTOUT IN 28W169-94 SKIN FOR ANTENNA STREW PBY-X-179.
   c. ADD STRUCTURE FOR SUPPORTING ANTENNA AS SHOWN
   d. RIVETS THAT ARE REMOVED IN MAKING THIS INSTALLATION SHOULD BE REPLACED WITH SAME SIZE RIVETS.
   e. TREAT ALL RAW EDGES WITH CHROMIC ACID SOLUTION AND FINISH WITH TWO COATS OF P-27 PRIMER.
   f. WHEN USING SUBSTITUTE MATERIAL INCREASE SCREW LENGTHS TO GIVE PROPER GRIP IF NECESSARY.

K 89

SEE B/M OF SHEET #1

SHEET #2

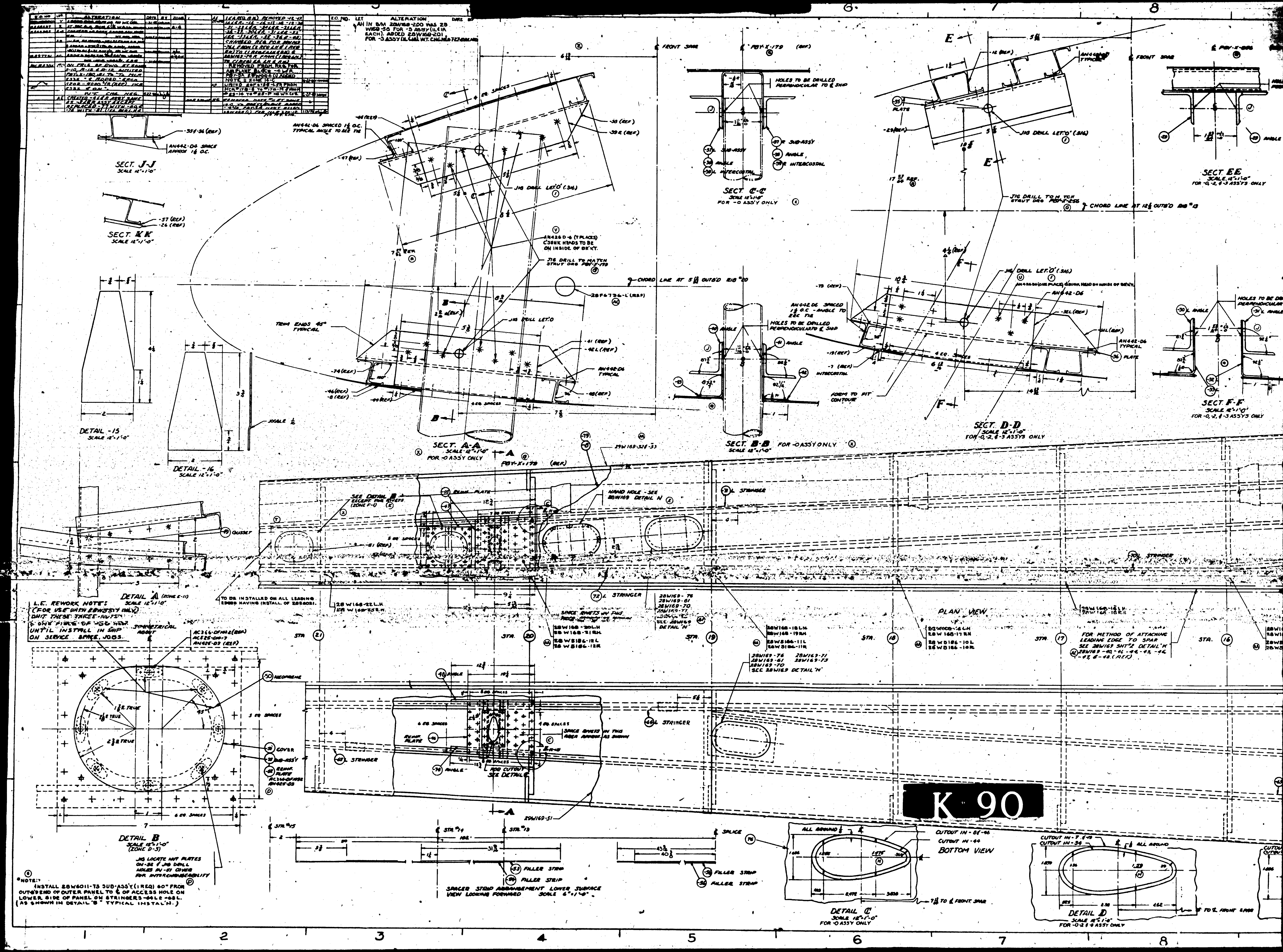
+ = RIVETS

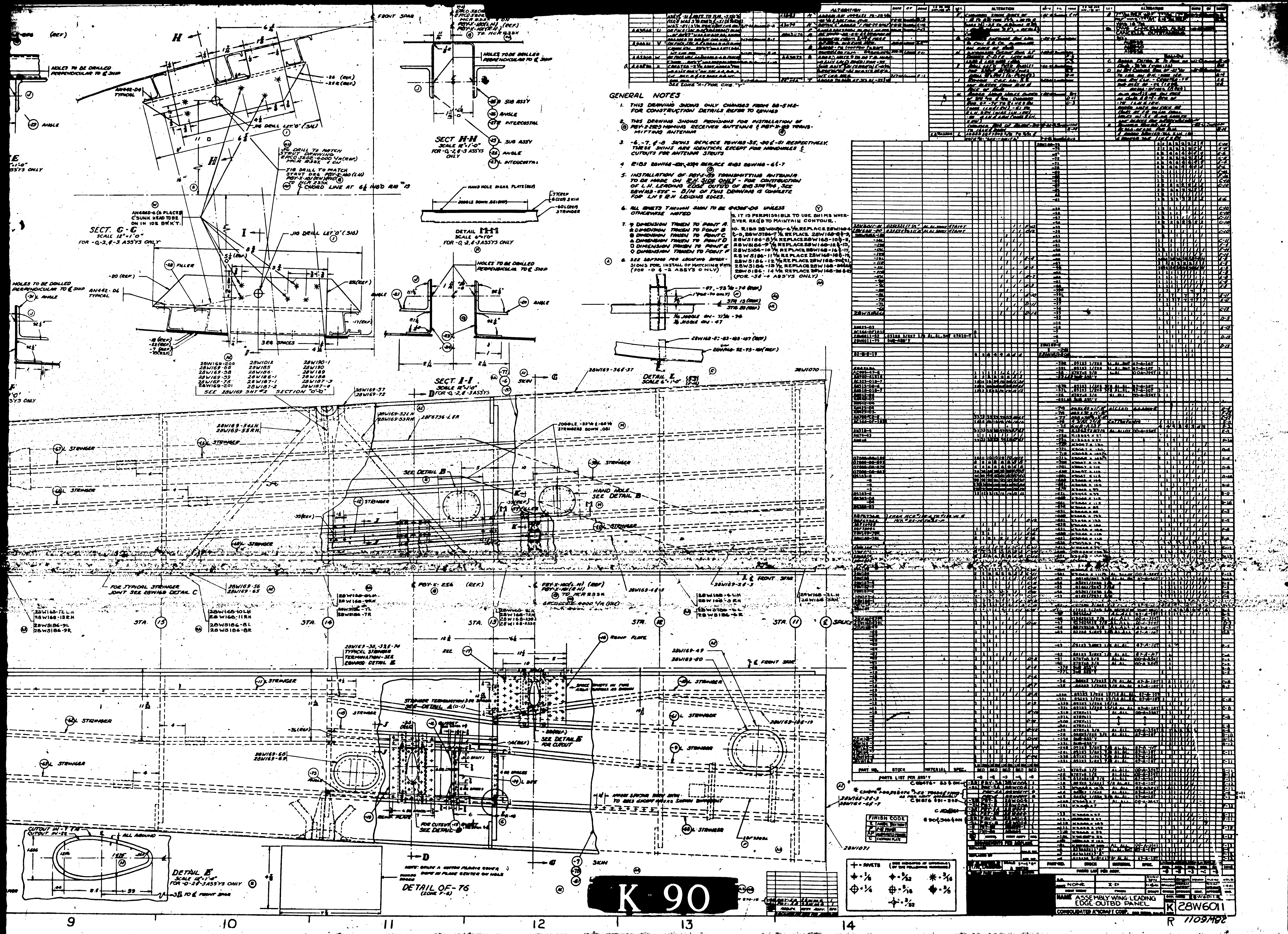
NAME INSTRUCTION D'WG - ANTENNA PROVISIONS - WING L.E. OUTER PANEL

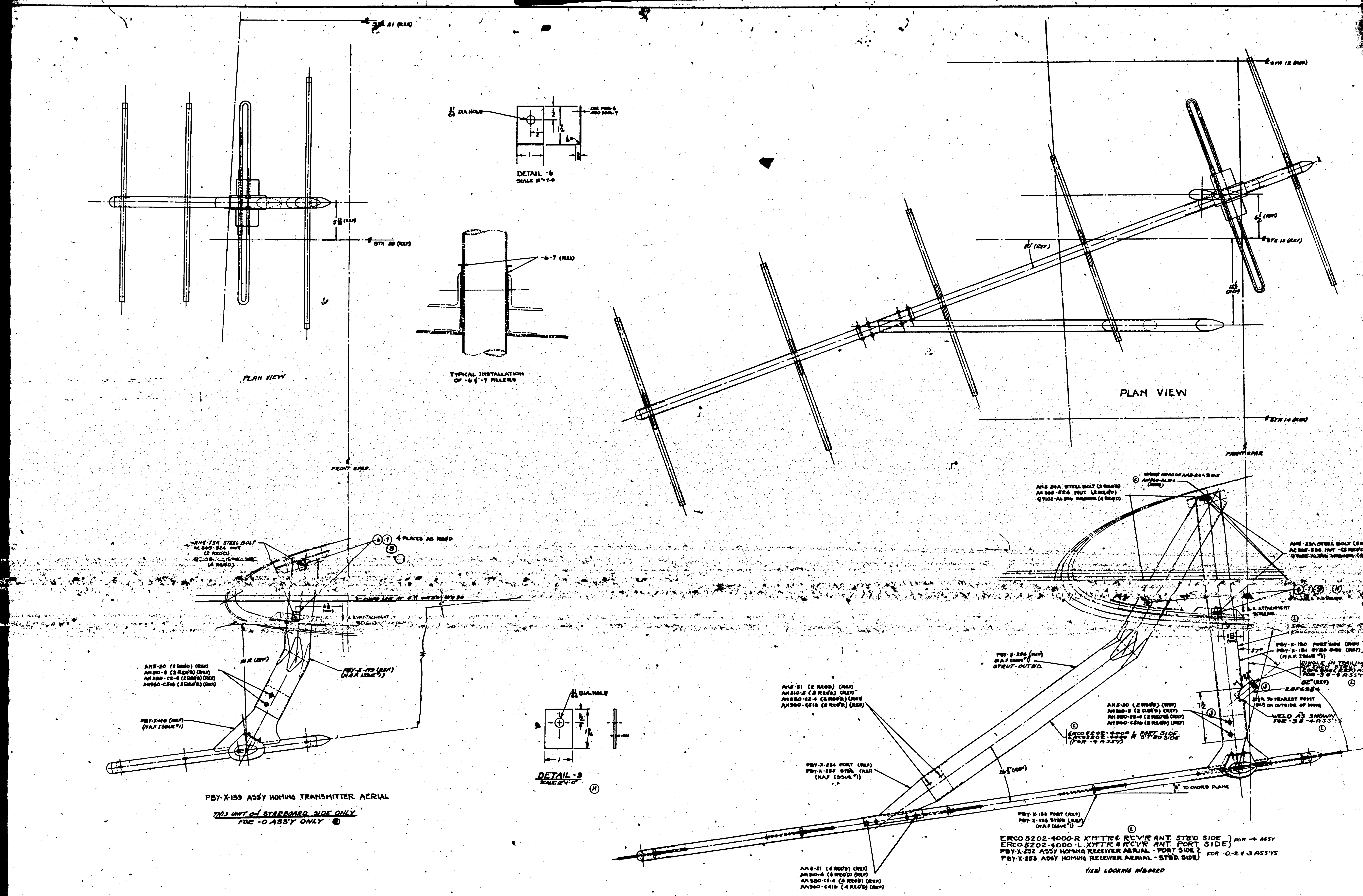
CONSOLIDATED AIRCRAFT CORP.

K 28W5517 SHEET #2

R SHEET #2

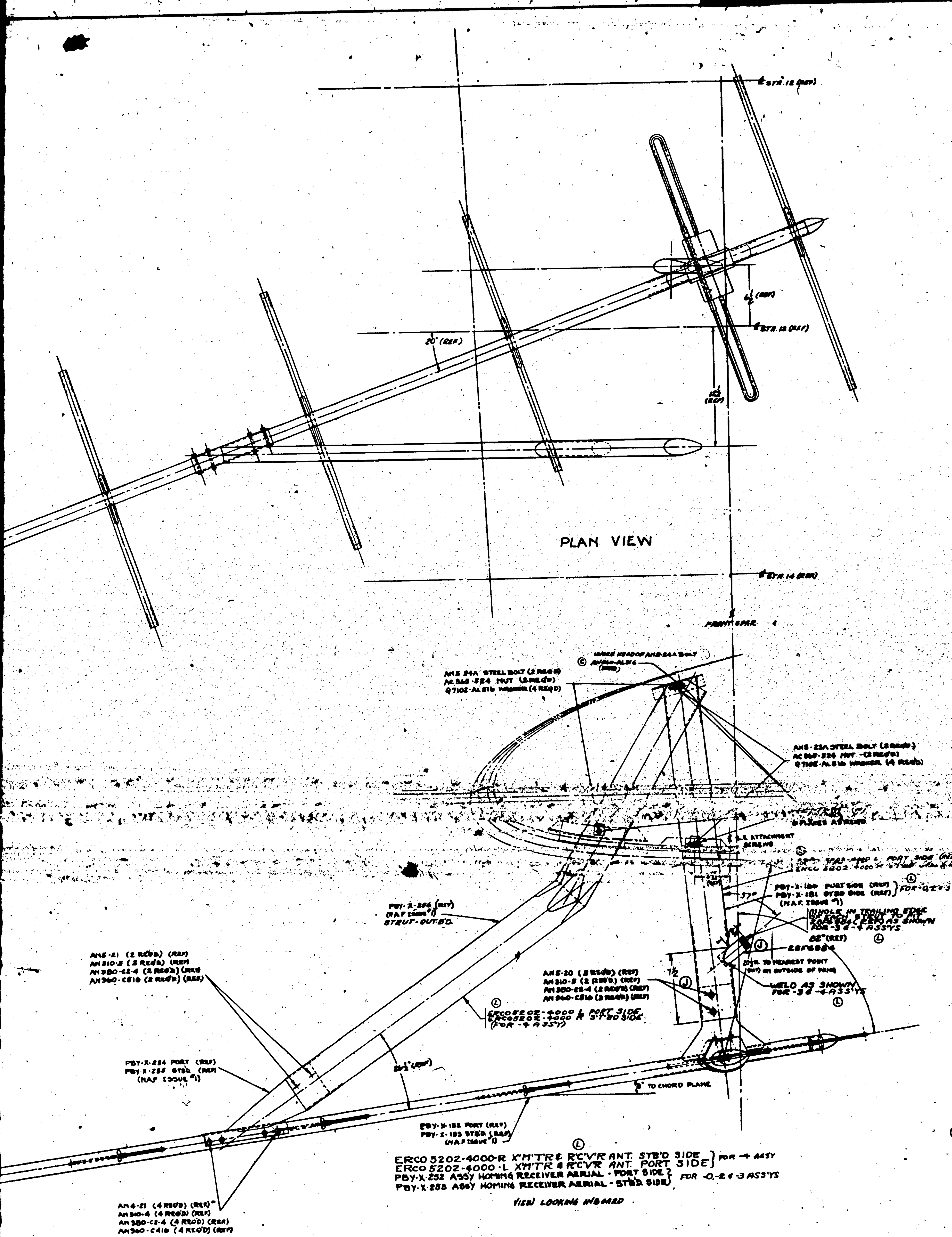

SECT. J-J
SECT. K-K
SECT. A-A
SECT. C-C
SECT. B-B FOR -O ASSY ONLY
SECT. D-D
SECT. E-E
SECT. F-F
DETAIL -15
DETAIL -16
DETAIL A
DETAIL B
DETAIL C
DETAIL D
PLAN VIEW
BOTTOM VIEW
FRONT SPAR
STRINGER
FILLER STRIP
SPACER STRIP ARRANGEMENT LOWER SURFACE VIEW LOOKING FORWARD
L.E. REWORK NOTES
K 90


GENERAL NOTES
1. THIS DRAWING SHOWS ONLY CHANGES FROM 28-5ME- FOR CONSTRUCTION DETAILS REFER TO 28W169
2. THIS DRAWING SHOWS PROVISIONS FOR INSTALLATION OF PBY-X-2523 HOMING RECEIVER ANTENNA & PBY-X-139 TRANSMITTING ANTENNA
3. -6, -7, & -8 SKINS REPLACE 28W169-35, -50 & -51 RESPECTIVELY. THESE SKINS ARE IDENTICAL EXCEPT FOR HANDHOLES & CUTOUTS FOR ANTENNA STRUTS
4. RIBS 28W168-239, -239R REPLACE RIBS 28W168-6 & -7
5. INSTALLATION OF PBY-X-139 TRANSMITTING ANTENNA TO BE MADE ON R.H. SIDE ONLY - FOR CONSTRUCTION OF L.H. LEADING EDGE OUTBD OF RIB STA 14, SEE 28W169-535 - B/M OF THIS DRAWING IS COMPLETE FOR LH & RH LEADING EDGES.
6. ALL RIVETS THROUGH SKIN TO BE 64305-DD UNLESS OTHERWISE NOTED
7. DIMENSION TAKEN TO POINT A.
DIMENSION TAKEN TO POINT B
DIMENSION TAKEN TO POINT C
DIMENSION TAKEN TO POINT D
DIMENSION TAKEN TO POINT E
DIMENSION TAKEN TO POINT F
8. SEE 28F7000 FOR LOCATING DIMENSIONS FOR INSTALL OF MATCHING PTS (FOR -0 & -2 ASSYS ONLY)
9. IT IS PERMISSIBLE TO USE SHIMS WHEREVER REQ'D TO MAINTAIN CONTOUR.
10. RIBS 28W5186-6 L/R REPLACE 28W168-4 & -5, 28W5186-7 L/R REPLACE 28W168-8 & -9, 28W5186-8 L/R REPLACE 28W168-10 & -11, 28W5186-9 L/R REPLACE 28W168-12 & -13, 28W5186-10 L/R REPLACE 28W168-16 & -17, 28W5186-11 L/R REPLACE 28W168-18 & -19, 28W5186-12 L/R REPLACE 28W168-20 & 21, 28W5186-13 L/R REPLACE 28W168-24 & 25, 28W5186-14 L/R REPLACE 28W168-26 & 27 (FOR -3 & -4 ASS'YS ONLY)
SECT. H-H
SECT. G-G
SECT. I-I
DETAIL M-M
DETAIL L
DETAIL E
DETAIL OF -76
FINISH CODE
RIVETS
PARTS LIST FOR ASS'Y
NAME ASSEMBLY-WING-LEADING EDGE-OUTBD PANEL
CONSOLIDATED AIRCRAFT CORP.
K 28W6011
R 1109M82
K 90
9
10
11
12
13
14



PLAN VIEW
TYPICAL INSTALLATION OF -6 & -7 FILLERS
DETAIL -6
FRONT SPAR
PLAN VIEW
DETAIL -9
AN5-20 (2 REQ'D) (REF)
AN310-5 (2 REQ'D) (REF)
AN380-C2-4 (2 REQ'D) (REF)
AN960-C516 (2 REQ'D) (REF)
PBY-X-179 (REF)
(NAF ISSUE #1)
PBY-X-126 (REF)
(NAF ISSUE #1)
PBY-X-159 ASS'Y HOMING TRANSMITTER AERIAL
THIS UNIT ON STARBOARD SIDE ONLY
FOR -0 ASS'Y ONLY
TO CHORD PLANE
PBY-X-132 PORT (REF)
PBY-X-133 STBD (REF)
(NAF ISSUE #1)
ERCO 5202-4000-R X'M'TR & R'C'V'R ANT. STB'D SIDE
ERCO 5202-4000-L X'M'TR & R'C'V'R ANT. PORT SIDE
FOR -4 ASSY
PBY-X-252 ASS'Y HOMING RECEIVER AERIAL - PORT SIDE
PBY-X-253 ASS'Y HOMING RECEIVER AERIAL - STB'D SIDE
FOR -0, -2 & -3 ASS'YS
VIEW LOOKING INBOARD

K 91



Ⓓ GENERAL NOTES

(1) THIS DWG APPLIES TO BOTH REWORK & PRODUCTION INSTALL'S.

(2) FOR REWORK INSTALL'S REFER TO 28W5517 SH'TS 1 & 2 FOR STRUCTURAL PROVISIONS.

(3) FOR PRODUCTION INSTALL'S. REFER TO 28W6011 FOR CONSTRUCTION DETAILS.

NOTE Ⓔ

STENCIL AIRPLANE BUREAU SERIAL NO. ON EACH LOOSE PIECE OF THE STRUT SETUP. (PBY-5A C.70496 ALL, C. C.77718 ALL, C.88476 #1-22 INCL.; PBY-5 C.70496 ALL, C.91876 #1-30 INCL., ETC.)

Ⓕ (4) WHERE STRUTS GO THRU LEADING EDGE FILL OPENING ON INSIDE WITH FILLET OF BOSTIK AND PAINT ON HOT MIXTURE OF 30 PARTS KETONE AND 70 PARTS BEES WAX ON OUTSIDE TO INSURE WATERSEAL.

(5) PAINT ON HOT MIXTURE OF 30 PARTS KETONE AND 70 PARTS BEES WAX OVER STRUT JOINTS, ACCESS HOLE COVERS, MICARTHA INSULATORS AND HAIRPIN ELEMENTS.

Ⓚ (6) FOR C.91876 ... (ALL) WHERE STRUTS GO THRU LEADING EDGE COVER HOLE ON OUTSIDE WITH TAPE & FAIRPRENE & FILL OPENING FROM INSIDE WITH (THIOKOL) E.C. 1806. Ⓙ

SHIPS BEARING BUREAU SERIAL NOS. 2456-2488 INC., 7243-7302 INC., 08000-08095 INC., 02940-02977 INC., 04950-04980 INC. & UNDER CONTRACT 88476

K 91

PART NO.	STOCK	MATERIAL	SPEC.
ERCO 5202-4000R			
ERCO 5202-4000L			

PARTS LIST PER ASSY.

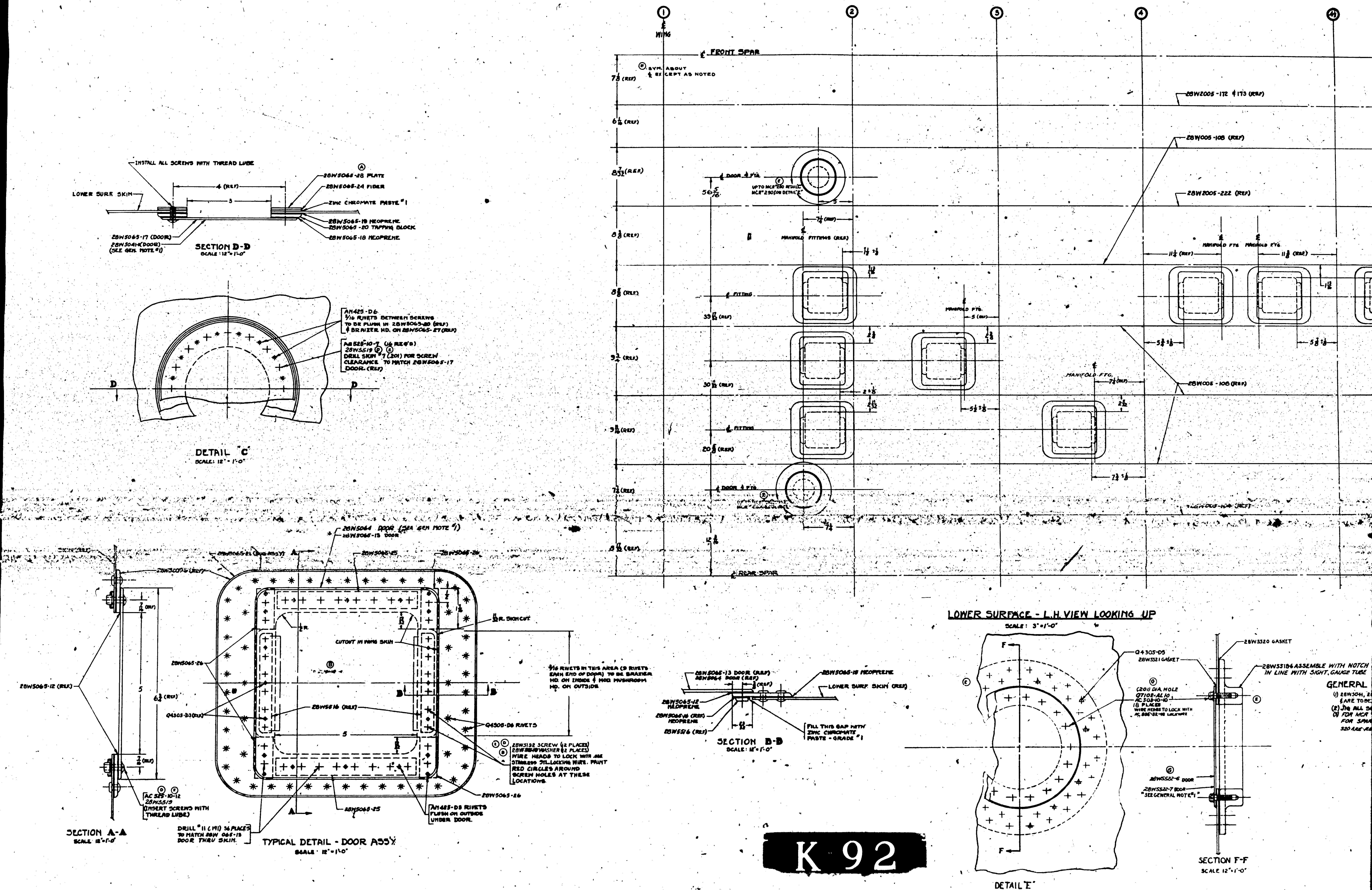
SCALE 3"=1'-0"

NAME INSTALL · TRANSMITTER & RECEIVER AERIALS · WING · OUTER PANEL

CONSOLIDATED AIRCRAFT CORP.

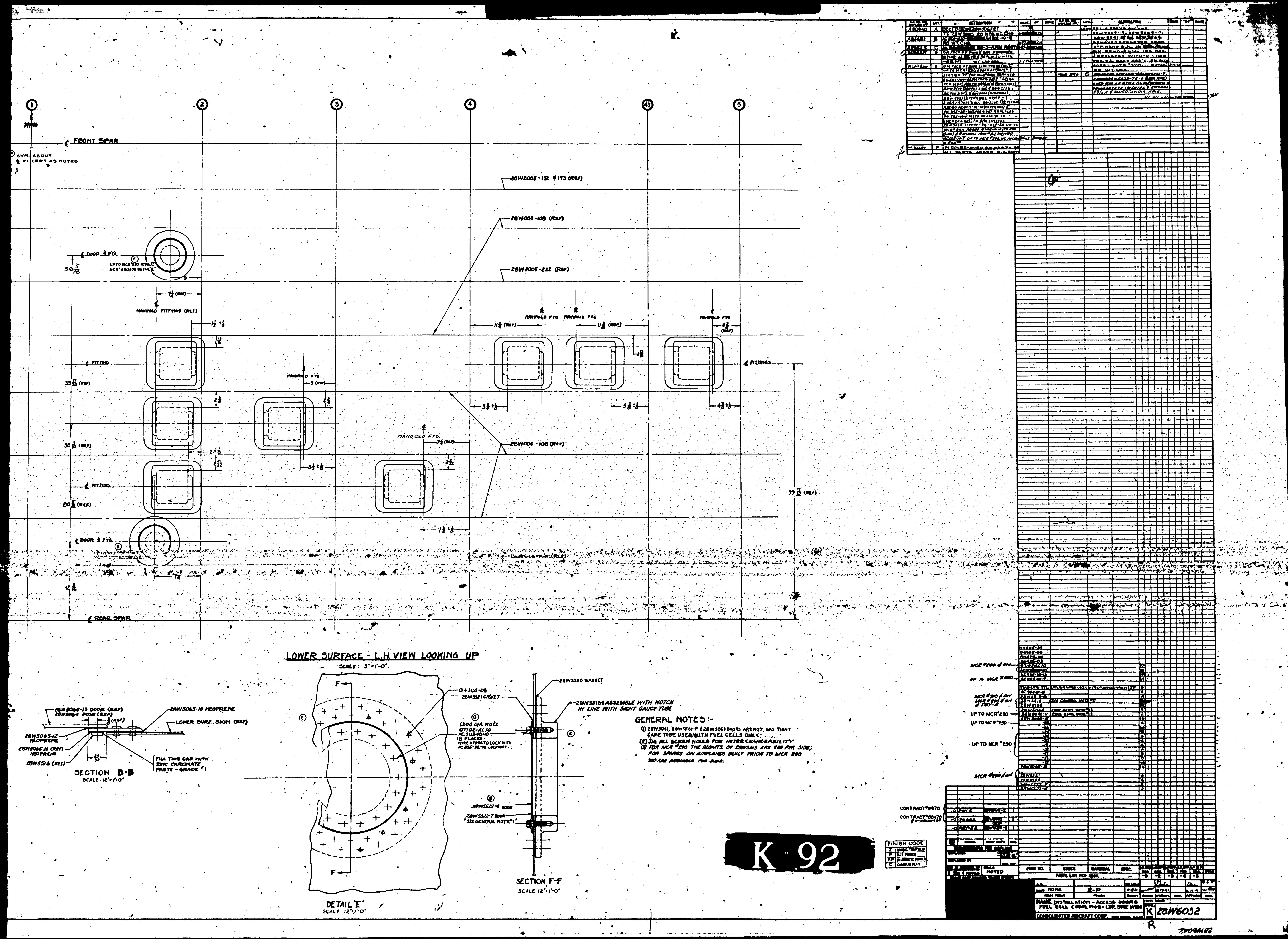
K 28W6029

R

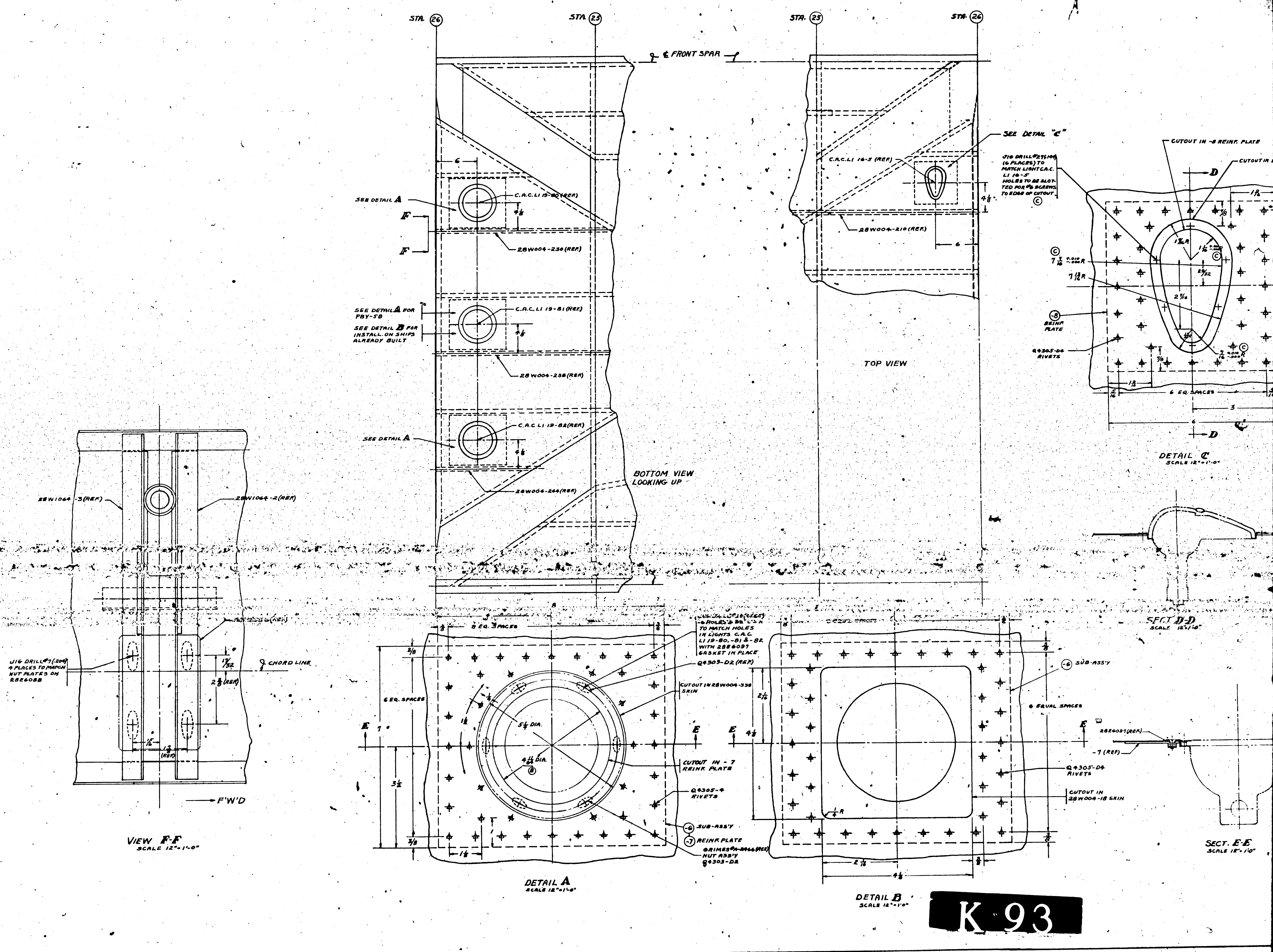


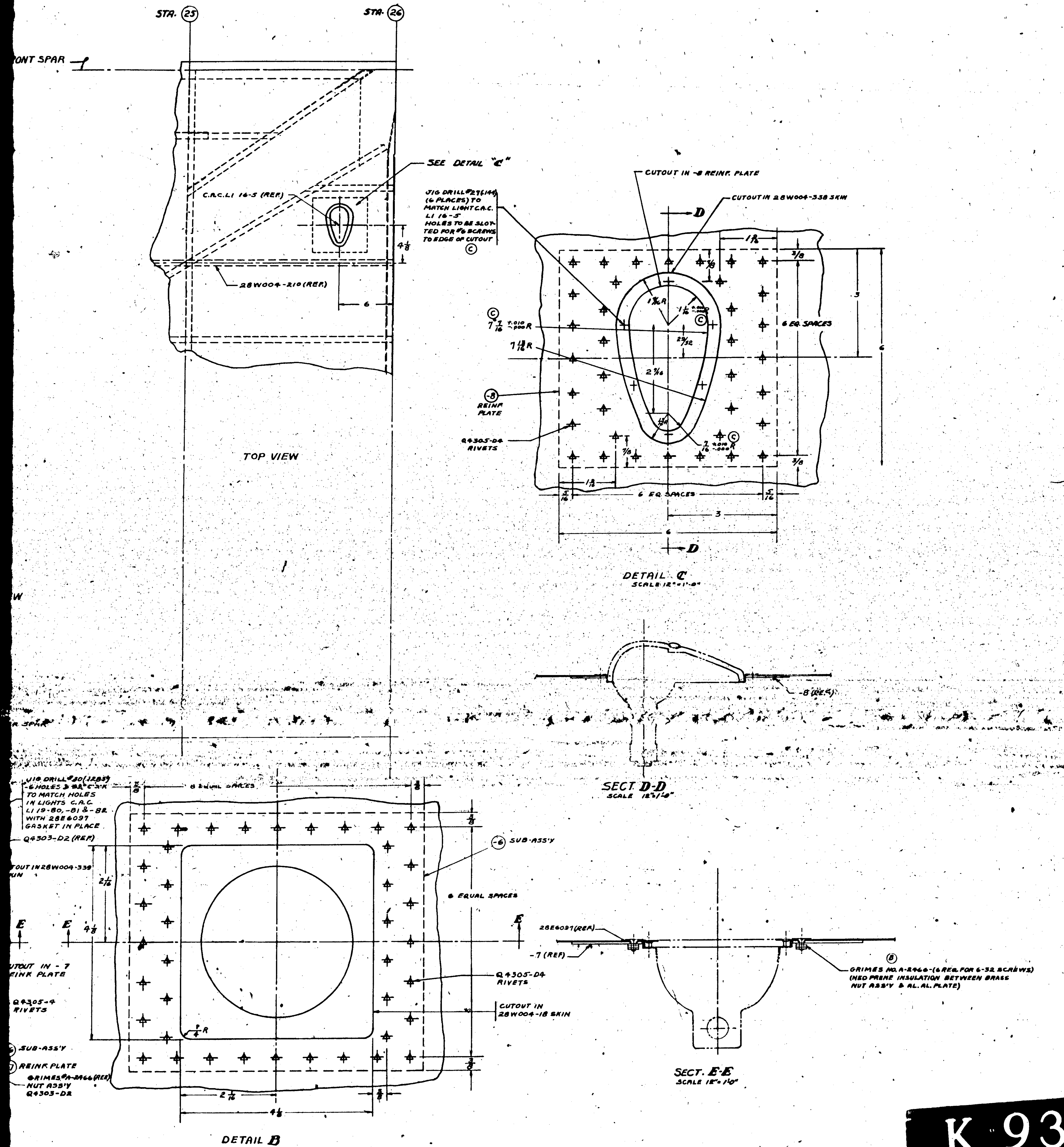
SECTION D-D
SCALE: 12" = 1'-0"
DETAIL "C"
SCALE: 12" = 1'-0"
FRONT SPAR
REAR SPAR
LOWER SURFACE - L.H. VIEW LOOKING UP
SCALE: 3" = 1'-0"
SECTION A-A
SCALE 12" = 1'-0"
TYPICAL DETAIL - DOOR ASSY
SCALE: 12" = 1'-0"
SECTION B-B
SCALE: 12" = 1'-0"
DETAIL "E"
SCALE 12" = 1'-0"
SECTION F-F
SCALE 12" = 1'-0"
GENERAL
INSTALL ALL SCREWS WITH THREAD LUBE
LOWER SURF. SKIN
ZINC CHROMATE PASTE #1
28W5065-17 (DOOR)
28W5065-12 (REF)
28W5064 DOOR (SEE GEN. NOTE #1)
28W5065-13 DOOR
28W5065-26
28W5065-25
28W5516 (REF)
Q4305-D6 RIVETS
CUTOUT IN WING SKIN
MANIFOLD FITTINGS (REF)
28W2005-172 & 173 (REF)
28W2005-222 (REF)
28W005-108 (REF)
28W3320 GASKET
28W3321 GASKET
28W5318 & ASSEMBLE WITH NOTCH IN LINE WITH SIGHT GAUGE TUBE

K 92



WING
FRONT SPAR
SYM. ABOUT
EXCEPT AS NOTED
28W2005-172 & 173 (REF)
28W005-108 (REF)
28W2005-222 (REF)
DOOR & FTG.
UP TO MCR #290 DETAIL "C"
MCR #290 (ON DETAIL "E")
MANIFOLD FITTINGS (REF)
MANIFOLD FTG.
FITTING
FITTINGS
MANIFOLD FTG.
28W006-108 (REF)
REAR SPAR
LOWER SURFACE - L.H. VIEW LOOKING UP
SCALE: 3"=1'-0"
28W5066-13 DOOR (REF)
LOWER SURF. SKIN (REF)
28W5065-12 NEOPRENE
28W5066-16 (REF) NEOPRENE
28W5516 (REF)
FILL THIS GAP WITH ZINC CHROMATE PASTE - GRADE "1
SECTION B-B
SCALE: 12"=1'-0"
Q4305-05
28W5321 GASKET
28W5320 GASKET
ASSEMBLE WITH NOTCH
IN LINE WITH SIGHT GAUGE TUBE
16 PLACES
28W5522-6 DOOR
28W5522-7 DOOR
"SEE GENERAL NOTE"1"
DETAIL "E"
SCALE 12"=1'-0"
SECTION F-F
SCALE 12"=1'-0"
GENERAL NOTES:-
(1) 28W5014, 28W5522-7 & 28W5064 DOORS ARE NOT GAS TIGHT & ARE TO BE USED WITH FUEL CELLS ONLY.
(2) JIG ALL SCREW HOLES FOR INTERCHANGEABILITY
(3) FOR MCR #290 THE REQMTS. OF 28W5519 ARE 288 PER SIDE; FOR SPARES ON AIRPLANES BUILT PRIOR TO MCR 290 320 ARE REQUIRED PER SIDE.
UP TO MCR #290
CONTRACT #21876
FINISH CODE
K 92
PART NO.
STOCK
MATERIAL
SPEC.
PARTS LIST PER ASSY.
NOTED
NONE
NAME INSTALLATION - ACCESS DOORS FUEL CELL COUPLINGS - L.H. SIDE WING
CONSOLIDATED AIRCRAFT CORP.
K 28W6032
R


STA. 26
STA. 25
℄ FRONT SPAR
SEE DETAIL A
C.A.C. L1 19-80 (REF)
28W004-230 (REF)
SEE DETAIL A FOR PBY-5B
SEE DETAIL B FOR INSTALL. ON SHIPS ALREADY BUILT
C.A.C. L1 19-81 (REF)
28W004-238 (REF)
C.A.C. L1 19-82 (REF)
28W004-244 (REF)
BOTTOM VIEW LOOKING UP
SEE DETAIL "C"
C.A.C. L1 16-5 (REF)
28W004-210 (REF)
TOP VIEW
CUTOUT IN -8 REINF. PLATE
-8 REINF. PLATE
Q4305-D4 RIVETS
6 EQ. SPACES
DETAIL C
SCALE 12"=1'-0"
SECT. D-D
28W1064-3 (REF)
28W1064-2 (REF)
CHORD LINE
F'W'D
VIEW F-F
SCALE 12"=1'-0"
8 EQ. SPACES
6 EQ. SPACES
Q4303-D2 (REF)
CUTOUT IN 28W004-338 SKIN
CUTOUT IN -7 REINF. PLATE
Q4305-4 RIVETS
-6 SUB-ASS'Y
-7 REINF. PLATE
DETAIL A
SCALE 12"=1'-0"
-6 SUB-ASS'Y
6 EQUAL SPACES
Q4305-D4 RIVETS
CUTOUT IN 28W004-18 SKIN
DETAIL B
SCALE 12"=1'-0"
SECT. E-E
SCALE 12"=1'-0"
K 93



NOTES:
1. THESE PROVISIONS TO BE MADE ON R.H. SIDE ONLY
2. TYPE AD RIVETS MAY BE USED FOR MAKING THIS INSTALL. ON SHIPS IN SERVICE.

FINISH
Z-ANODIC TREATMENT
P.P.-27 PRIMER

C#77713 & #88476
C#31876

MODEL	NEXT ASS'Y	REQ
PBY-5A	28W004	1
PBY-5	28W004	1
PBY-5B	28W004-337	1

REQUIREMENTS PER AIRPLANE

PART NO.	STOCK	MATERIAL	SPEC.
Q4305-D4			
GRIMES #A2466			
28W6033-7	.064×7 1/8×8 1/8	AL. ALLOY SHT.	47A10T
28W6033-6	SUB-ASS'Y		
28W6033-8	.064×6 1/8×6 1/8	AL. ALLOY SHT.	47A10T
28W6033-6	SUB-ASS'Y		

PARTS LIST PER ASSY.

SCALE 12" = 1'-0" & NOTED

3/16 AND SMALLER USE TYPE AD (A17ST)
LARGER THAN 3/16 USE TYPE D (17ST)

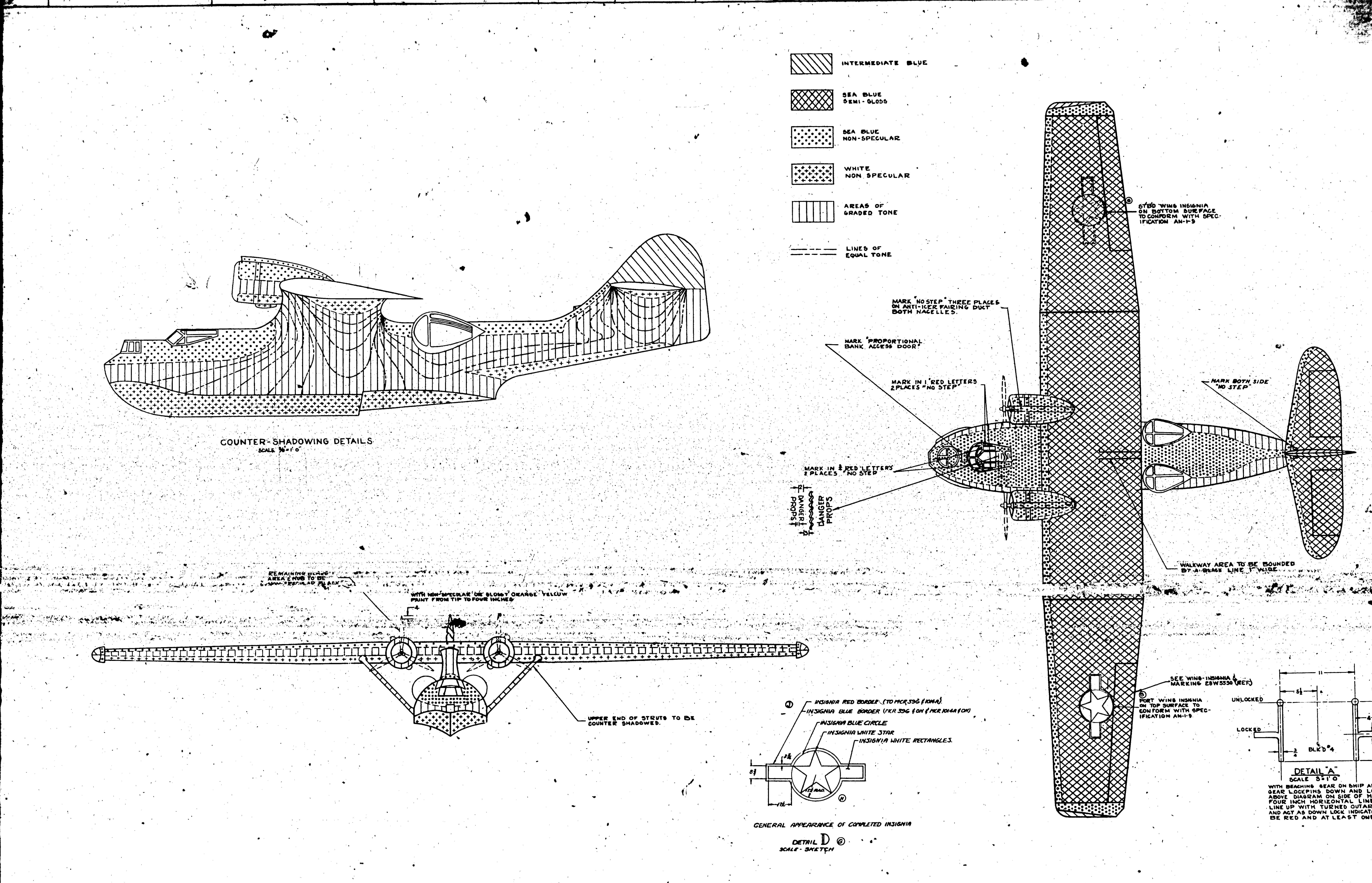
HEAT TREAT: NONE — FINISH: Z-P

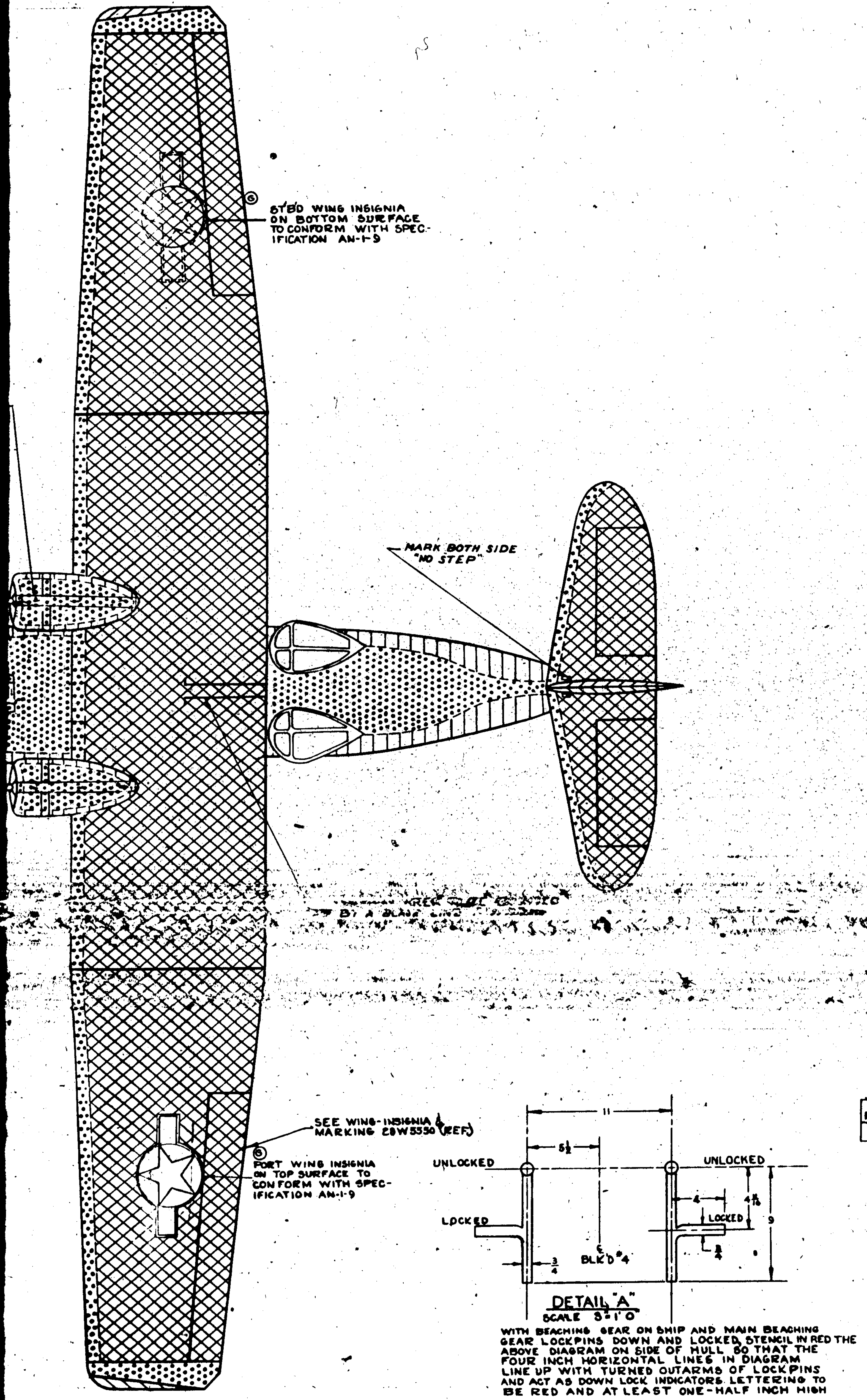
NAME PROVISIONS-INSTALL. RECOG. LIGHTS-WING-OUTER PANEL

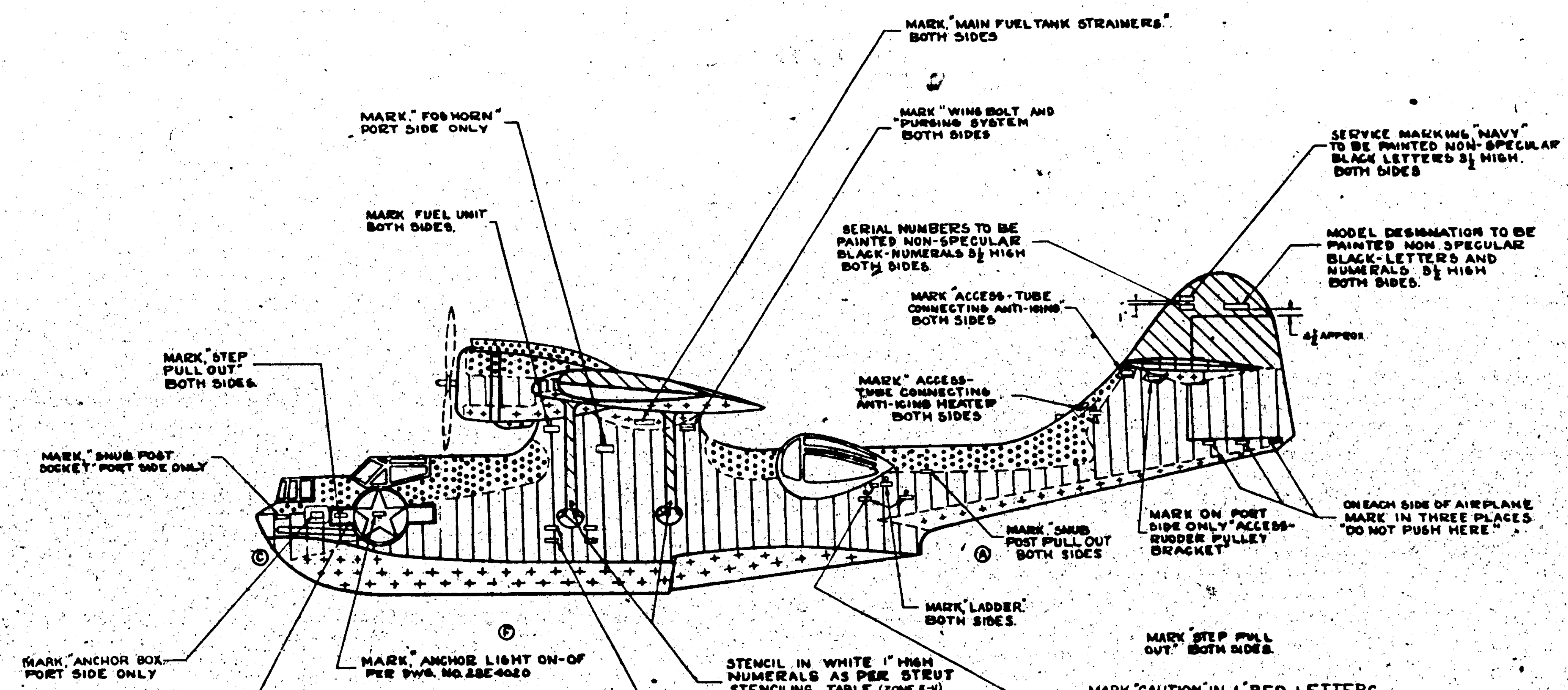
CONSOLIDATED AIRCRAFT CORP.

K 28W6033

K 93


INTERMEDIATE BLUE
SEA BLUE SEMI-GLOSS
SEA BLUE NON-SPECULAR
WHITE NON SPECULAR
AREAS OF GRADED TONE
LINES OF EQUAL TONE
COUNTER-SHADOWING DETAILS
STBD WING INSIGNIA ON BOTTOM SURFACE TO CONFORM WITH SPECIFICATION AN-I-9
MARK "NO STEP" THREE PLACES ON ANTI-ICER FAIRING DUCT BOTH NACELLES.
MARK "PROPORTIONAL BANK ACCESS DOOR"
MARK IN 1" RED LETTERS 2 PLACES "NO STEP"
MARK IN ½" RED LETTERS 2 PLACES "NO STEP"
DANGER PROPS
MARK BOTH SIDE "NO STEP"
WALKWAY AREA TO BE BOUNDED BY A BLACK LINE 1" WIDE
WITH NON-SPECULAR OR GLOSSY ORANGE YELLOW PAINT FROM TIP TO FOUR INCHES
UPPER END OF STRUTS TO BE COUNTER SHADOWED.
INSIGNIA RED BORDER (TO MCR 396 & 1014A)
INSIGNIA BLUE BORDER (MCR 396 & ON & MCR 1014A & ON)
INSIGNIA BLUE CIRCLE
INSIGNIA WHITE STAR
INSIGNIA WHITE RECTANGLES.
GENERAL APPEARANCE OF COMPLETED INSIGNIA
DETAIL D
SCALE - SKETCH
SEE WING-INSIGNIA & MARKING 28W5550 (REF)
PORT WING INSIGNIA ON TOP SURFACE TO CONFORM WITH SPECIFICATION AN-I-9
UNLOCKED
LOCKED
BLK'D #4
DETAIL "A"
SCALE 3"=1'0"



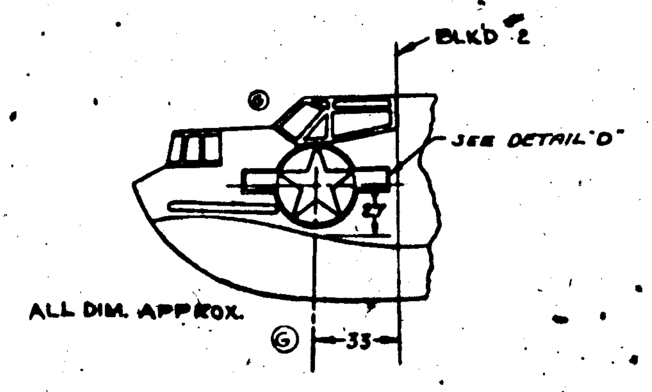


STRUT STENCILING TABLE

PORT FWD. STRUT	PORT AFT. STRUT	STBD FWD. STRUT	STBD AFT. STRUT
3	4	1	2

DETAIL "A"
SCALE 3=1'0"

WITH BEACHING GEAR ON SHIP AND MAIN BEACHING GEAR LOCKPINS DOWN AND LOCKED, STENCIL IN RED THE ABOVE DIAGRAM ON SIDE OF HULL SO THAT THE FOUR INCH HORIZONTAL LINES IN DIAGRAM LINE UP WITH TURNED OUTARMS OF LOCKPINS AND ACT AS DOWN LOCK INDICATORS LETTERING TO BE RED AND AT LEAST ONE-HALF INCH HIGH



DETAIL "C"

NOTES;-

1. ALL LETTERING TO BE ½ INCH IN HEIGHT EXCEPT WHERE NOTED.
2. THE WIDTH OF ALL NUMERALS AND LETTERS SHALL BE APPROX. ⅔ OF THE HEIGHT AND THE INDIVIDUAL STROKES FORMING THEM SHALL BE ⅙ OF THE HEIGHT - ALL NUMERALS AND LETTERS TO BE NON-SPECULAR INTERMEDIATE BLUE UNLESS OTHERWISE SPECIFIED.
3. FOR MATERIALS INVOLVED SEE APPLICABLE SPECIFICATION
4. ALL STENCILING TO BE APPLIED OVER CAMOUFLAGE.
5. ON FABRIC SURFACES DOPED WITH ACETATE BUTYRATE DOPE, AN ACETATE BUTYRATE PIGMENTED DOPE MUST ALSO BE USED THE COLOR TO AGREE WITH PRESENT CAMOUFLAGE COLOR SCHEME.

NOTE;-
THIS CAMOUFLAGE & MARKING DIAGRAM IS APPLICABLE FOR, PBY-5A
USE COLOR SCHEME AS SHOWN WITH LANDING GEAR IN RETRACTED POSITION

6. WITH FLOATS IN DOWNWARD POSITION. OUTBOARD SIDE OF FLOAT STRUTS TO BE PAINTED NON-SPECULAR INTERMEDIATE BLUE. THE UPPER END BEING COUNTER-SHADOWED.

K 94

APPROVED FOR TOOLING BY
Howard
5/27/43

REQUIREMENTS PER AIRPLANE

PART NO	STOCK	MATERIAL	SPEC.

PARTS LIST PER ASSY.

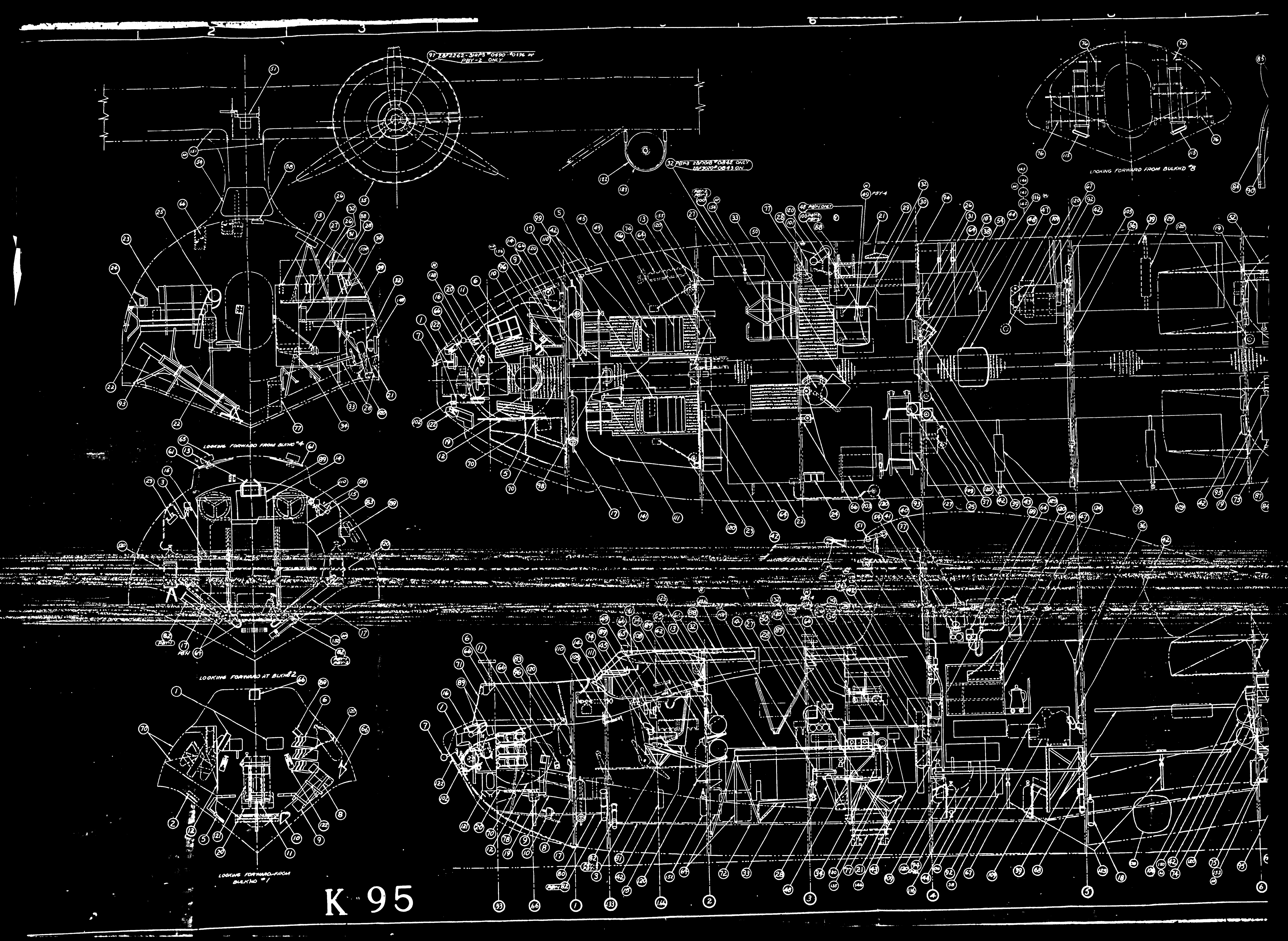
SR-2C & AS NOTED 5-5-43

NAME CAMOUFLAGE AND MARKING DIAGRAM-EXT.

K 28Z5070

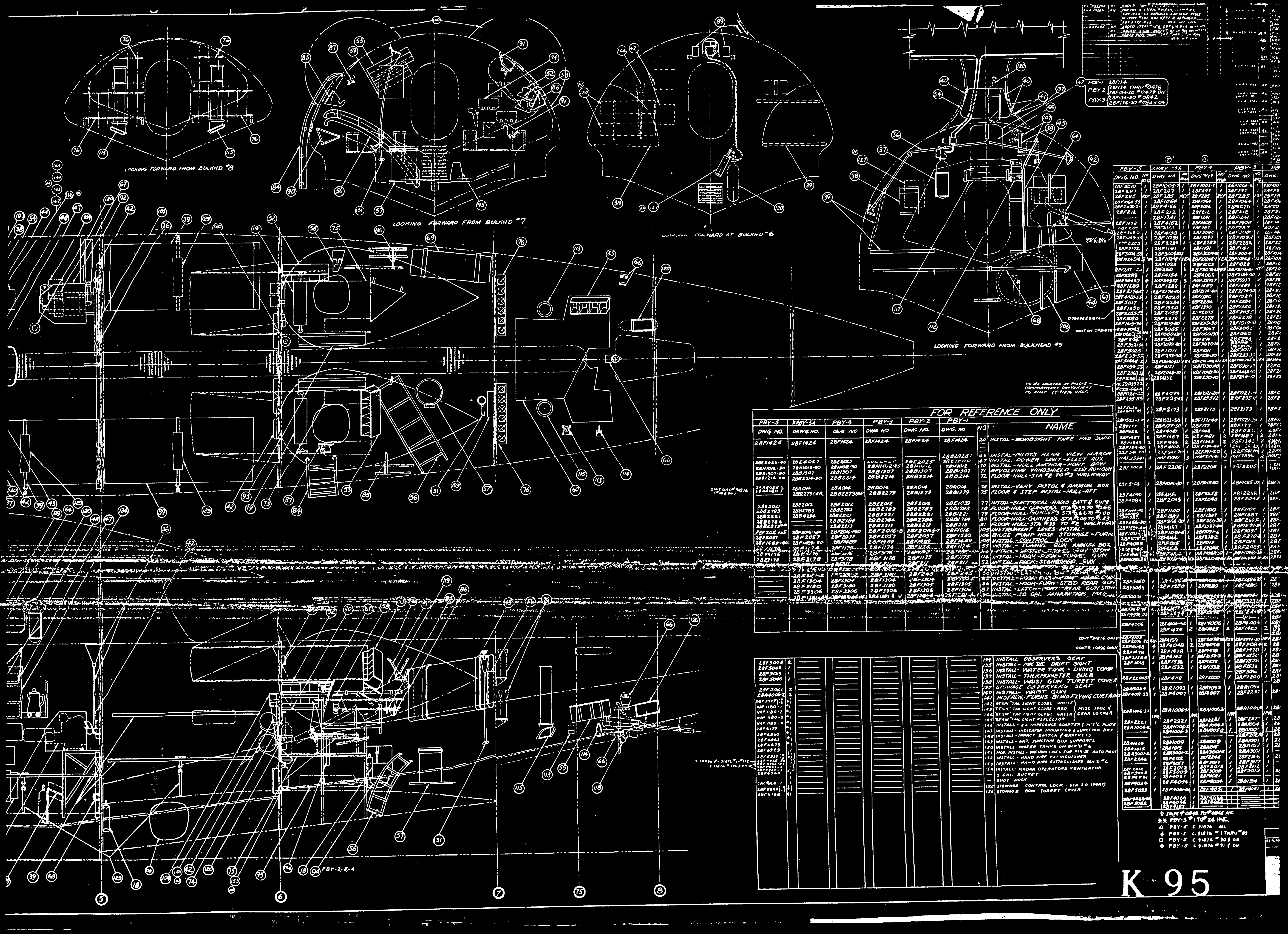
CONSOLIDATED AIRCRAFT CORP.

R 28Z5070

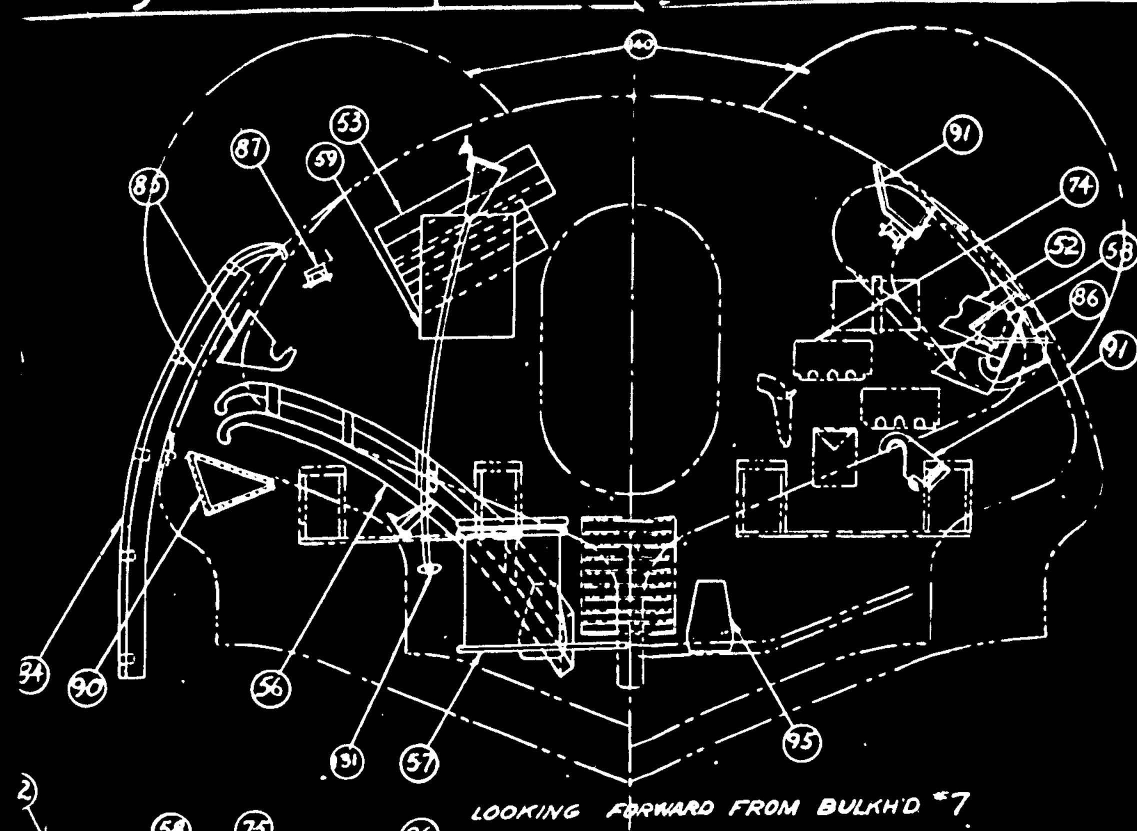


LOOKING FORWARD FROM BULKHD #8
LOOKING FORWARD FROM BULKHD #4
LOOKING FORWARD AT BLKHD #2
LOOKING FORWARD FROM BULKHD #1
PBY-2 ONLY
PBY-4

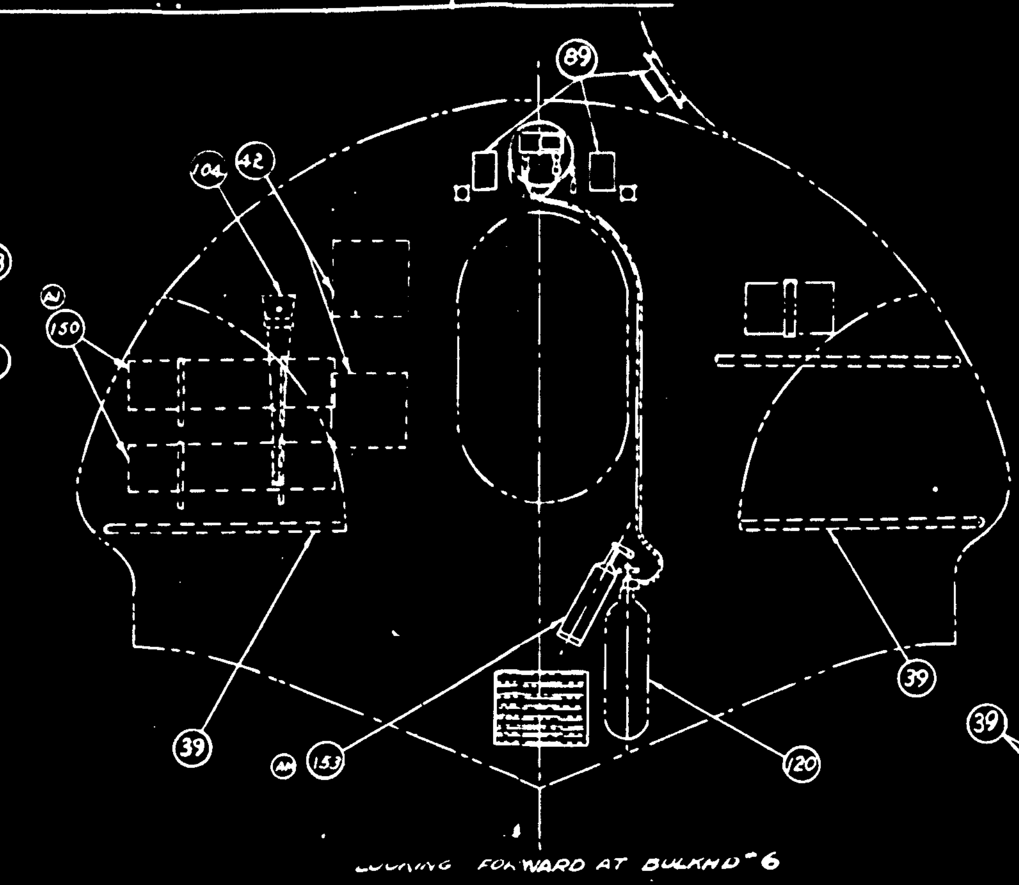
K 95


LOOKING FORWARD FROM BULKHD #8
LOOKING FORWARD FROM BULKHD #7
LOOKING FORWARD AT BULKHD #6
LOOKING FORWARD FROM BULKHEAD #5
FOR REFERENCE ONLY
PBY-5
XPBY-5A
PBY-4
PBY-3
PBY-2
PBY-1
NAME
INSTAL-BOMBSIGHT KNEE PAD SUPP
INSTAL-PILOTS REAR VIEW MIRROR
INSTALL-OBSERVER'S SEAT
STOWAGE BOW TURRET COVER

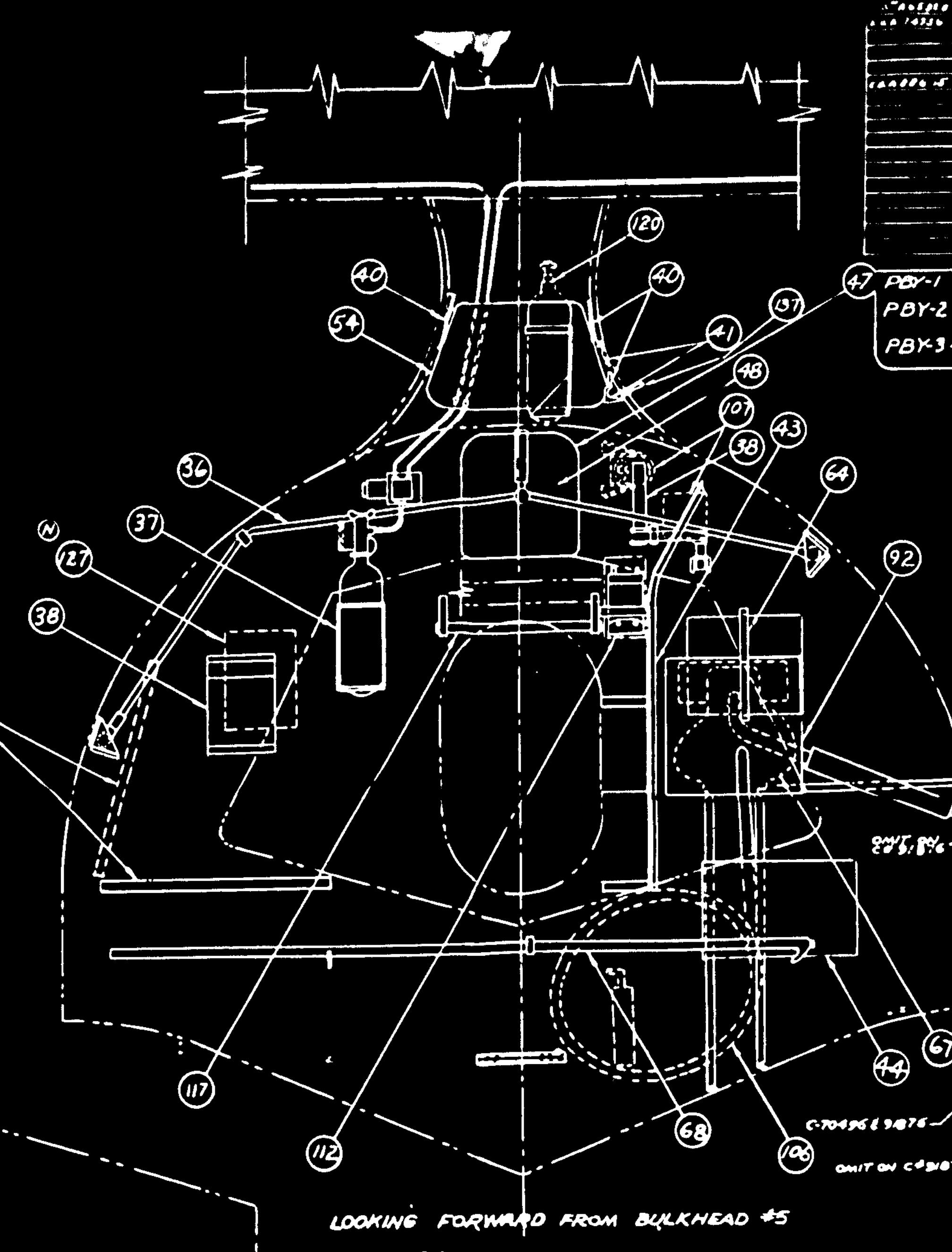
K 95



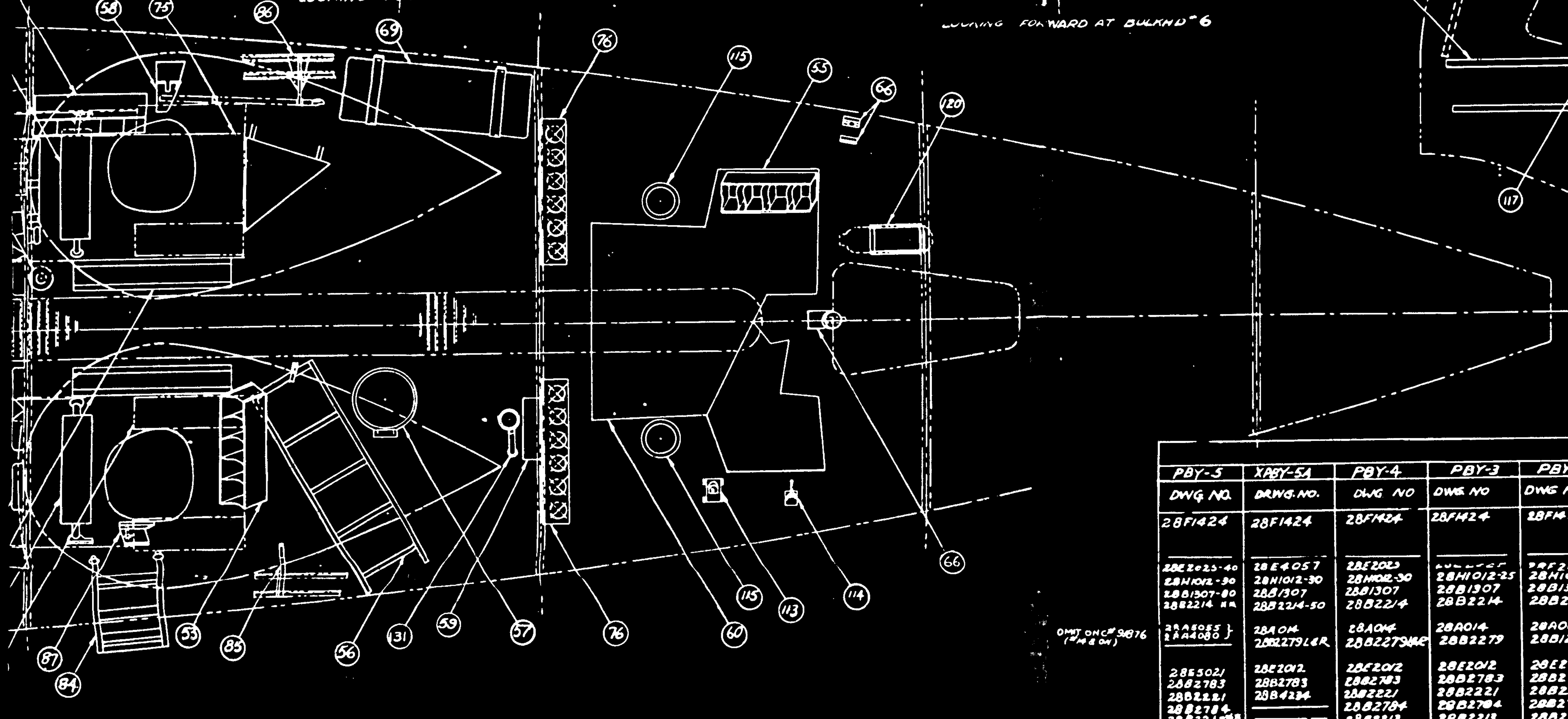
LOOKING FORWARD FROM BULKH'D #7



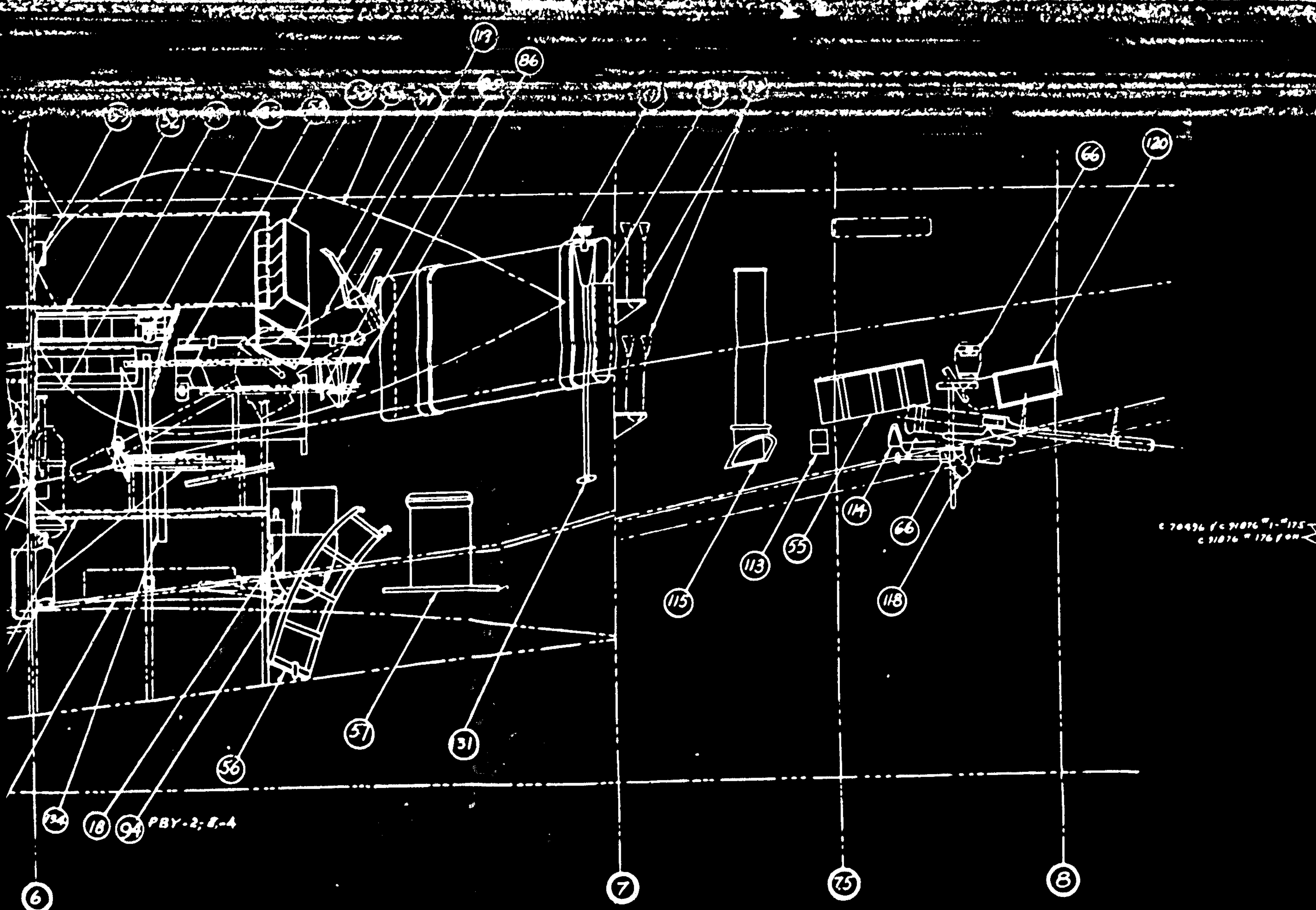
LOOKING FORWARD AT BULKH'D #6



LOOKING FORWARD FROM BULKHEAD #5



K 95



PBY-2, 3 & -4

TO BE LOCATED IN PILOTS COMPARTMENT CONVENIENT TO PILOT (C-91876 ONLY)

FOR REFERENCE ONLY

PBY-5 DWG. NO.	XPBY-5A DRWG. NO.	PBY-4 DWG. NO	PBY-3 DWG. NO	PBY-2 DWG. NO.	PBY-1 DWG. NO	NO.	NAME
28F1424	28F1424	28F1424	28F1424	28F1424	28F1424	20	INSTAL.-BOMBSIGHT KNEE PAD SUPP
—	—	—	—	—	28B28281	68	INSTAL-PILOTS REAR VIEW MIRROR
28E2025-40	28E4057	28E2025	[illegible]	28F2025	28F1200	67	INSTAL.-POWER UNIT-ELECT AUX
28H1012-30	28H1012-30	28H1012-30	28H1012-25	28H1012	28H1012	70	INSTAL-HULL ANCHOR-PORT BOW
28B1307-80	28B1307	28B1307	28B1307	28B1307	28B1307	71	REVOLVING WINDSHIELD ASSY BOWGUN
28B2214	28B2214-50	28B2214	28B2214	28B2214	28B214	72	FLOOR-HULL-STA. #2 TO #3 WALKWAY
28A5055 / 28A4080	28A014	28A014	28A014	28A014	28A014	74	INSTAL-VERY PISTOL & AMMUN. BOX
—	28B2279LER	28B2279	28B2279	28B1279	28B1279	75	FLOOR & STEP INSTAL-HULL-AFT
28E5021	28E2012	28E2012	28E2012	28E2012	28E1039	77	INSTAL-ELECTRICAL-RADIO BATT. & SUPP.
28B2783	28B2783	28B2783	28B2783	28B2783	28B1783	78	FLOOR-HULL-GUNNER'S STA. 0.33 TO 0.66
28B2221	28B4234	28B2221	28B2221	28B2221	28B1221	79	FLOOR-HULL-GUNNER'S STA. 0.66 TO 1.00
28B2784	—	28B2784	28B2784	28B2784	28B1784	80	FLOOR-HULL-GUNNER'S STA. 1.00 TO 1.33
28B2213	—	28B2213	28B2213	28B2213	28B213	81	FLOOR-HULL-STA. 1.33 TO #2 WALKWAY
28F2016-155	28F2016-140	28F2016-140	28F2016-8	28F2016-7	28F1016	105	INSTRUMENT LINES-INSTAL.-
28F2057	28F2057	28F2057	28F2057	28F2057	28F1530	106	BILGE PUMP HOSE STOWAGE-FURN.
28F1489-90	28F1489-50	28F1489	28F1489	28F1489	28F1489	108	INSTAL.-CONTROL LOCK
28F1174	28F1174	28F1174	28F1174	28F1174	28F1174	55	INSTAL.-TUNNEL GUN AMMUN. BOX
[illegible]	28F3176	28F3176	28F3176	28F1199	28F1199	113	INSTAL.-LATCH TUNNEL GUN STOW
28F3178	28F3178	28F3178	28F3178	28F1175	28F1175	114	INSTAL.-HOOK-FURN.-TUNNEL GUN
[illegible]	28F211	28F211	28F211	28F211	28F211	52	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
—	28F1304	28F1304	28F1304	28F1304	28F1304	85	INSTAL.-HOOK-FURN.-PORT REAR GUN
—	28F3180	28F3180	28F3180	28F1305	28F1305	86	INSTAL.-HOOK-FURN-STB'D REAR GUN
—	28F3306	28F3306	28F3306	28F1306	28F1306	87	INSTAL.-LATCH-PORT REAR GUN STOW
[illegible]	[illegible]	[illegible]	[illegible]	28F1281 [illegible]	28F1281 [illegible]	90	INSTAL.-.50 CAL. AMMUNITION MAG.

CONT. #91876 ONLY

CONTR. 10496 ONLY

PBY-5 DWG. NO.	NO. REQ.	XPBY-5A	PBY-4	PBY-3	PBY-2	PBY-1	NO.	NAME
28F5008	2	—	—	—	—	—	134	INSTALL- OBSERVER'S SEAT
28F5009	1	—	—	—	—	—	135	INSTALL- MK VIII DRIFT SIGHT
28F5013	1	—	—	—	—	—	136	INSTALL- WATER TANK - LIVING COMP.
28F5040	1	—	—	—	—	—	137	INSTALL- THERMOMETER BULB
—		—	—	—	—	—	138	INSTALL- WAIST GUN TURRET COVER
28F5046	2	—	—	—	—	—	139	STOWAGE- OBSERVER'S SEAT
28A4006-2	2	—	—	—	—	—	140	INSTALL- WAIST GUN
28F5977 (-0, -2)	1	—	—	—	—	—	141	INSTAL'N.-FURNS.-BLIND FLYING CURTAINS
NAF 1180-1	1	—	—	—	—	—	142	"RESIN" TAIL LIGHT GLOBE - WHITE (MISC. TOOL & GEAR LOCKER)
NAF 1180-2	1	—	—	—	—	—	143	"RESIN" TAIL LIGHT GLOBE - RED (MISC. TOOL & GEAR LOCKER)
NAF 1180-3	1	—	—	—	—	—	144	"RESIN" TAIL LIGHT GLOBE - GREEN (MISC. TOOL & GEAR LOCKER)
NAF 1180-4	1	—	—	—	—	—	145	"RESIN" TAIL LIGHT REFLECTOR (MISC. TOOL & GEAR LOCKER)
28F6199	1	—	—	—	—	—	146	INSTALL - 2A IMPEDANCE ADAPTER & M'T'G. PLATE
28F6060	1	—	—	—	—	—	147	INSTALL - INDICATOR MOUNTING & JUNCTION BOX
28F6063	1	—	—	—	—	—	148	INSTALL - IMPACT SWITCH & BRACKETS
28F6639	1	—	—	—	—	—	149	INSTALL - ANT. JUNCTION BOX SUPPORTS
28F6929	1	—	—	—	—	—	150	INSTALL - WATER TANKS ON BLK'D #6
28F5337 (-0, -2)	1	—	—	—	—	—	151	MOD. INSTALL - VACUUM LINES FOR MK III AUTO PILOT
28F4065-50	1	—	—	—	—	—	152	INSTALL - HAND FIRE EXTINGUISHER
28F4065-55	1	—	—	—	—	—	153	INSTALL - HAND FIRE EXTINGUISHER BLK'D #6
28F5033-0 / 28F5033-2	1	—	—	—	—	—	154	INSTALL - RADAR OPERATORS VENTILATOR
28F6964	1	—	—	—	—	—	—	3 GAL. BUCKET
	1	—	—	—	—	—	—	BUOY HOOK
CAC #1100-1	1	—	—	—	—	—	155	STOWAGE CONTROL LOCK - STA 2.0 (PORT)
28F5242 (-2, -3)	1	—	—	—	—	—	156	STOWAGE BOW TURRET COVER
28F6168	1							

C 91876 #1-#175; #176 & ON

PBY-1 DWG. NO.	NO. REQ.	NO.	NAME
28F1005	1	1	ASSEMBLY-PANEL-BOMBERS INSTRUMENTS-FURN
28F297	1	2	INSTAL.-FIRING KEY STOWAGE
28F285	REF	3	INSTAL-MAP HOLDER-FURN.
28F1064	1	4	COVER-PILOTS ENCLOSURE-FURN
28F1407	1	5	STOWAGE-REVOLVING WINDSHIELD SLOT COVER FURN.
28F212	1	6	INSTAL. BOW GUN AMMUNITION RACK
28F1241	1	7	INSTAL-AIR THERMOMETER-HULL HANDHOLE COVER
28F1408	1	8	STOWAGE-FURN-BOMBERS BACK REST
28F287	1	9	COVER-BOMBER'S WINDOW STOWAGE
28F1412	1	10	INSTAL.-SOCKET BOW GUN STOWAGE
28F1093	1	11	ASSEM-BOMBER'S SEAT WITH REMOVABLE BACK REST
28F1398	1	12	STOWAGE-REVOLVING WINDSHIELD COVER FURN.
28F1191	1	13	INSTAL.-BRKTS.-GF RADIO EQUIP ON BULKH'D #2
28F1014	1	14	INSTAL.-PANEL-PILOT'S INSTRUMENTS
28F1024-8-1	1ER	15	INSTAL-PILOTS' SEATS
28F1023	1	16	AIR THERMOMETER-STOWAGE-HULL HANDHOLE COVER
28F1444	1	17	STOWAGE-FURN.-BUOY HOOK
28F016	1	18	INSTAL.-HAND FIRE EXTINGUISHER (FOR PBY-5, SEE ALSO #152 & 153)
NAF39937	3	19	SAFETY BELT-GUNNER'S
28F1289	1	21	INSTAL.-SUPPORT-FURN.-RADIO DYNAMOTOR
28F025	1	22	INSTAL.-TABLE-NAVIGATORS
28F1020	1	23	INSTAL-WATER TANK (SEE ITEM #150 FOR C 91876 #91 (ON) PBY-5)
28F1006	1	24	INSTAL.-PANEL-NAVIGATOR'S INSTRUMENTS
28F1350	1	25	INSTAL-PORTABLE FIRE EXTINGUISHER
28F1290	1	26	INSTAL-BRACKETS-FURN.-RADIO COIL BOX
28F1008	1	27	INSTAL-UPPER SUPPORT-GO & GH RADIO TRANS.
28F1019	1	28	INSTAL.-ANTENNA REEL & LEAD-OUT-ST'BD SIDE
28F062	1	29	ASSEM-SHELF-RADIO RECEIVER
28F060	1	30	INSTAL - TABLE-RADIO OPERATOR
28F294	1	31	INSTAL-POCKET-ELECTRICAL DIAGRAM
28F1018	1	32	INSTAL-FOOD LOCKER
28F1011	1	33	INSTAL-SUPPORT-RADIO TRANSMITTER BASE
28F233	1	34	INSTAL.-SEAT-RADIO OPERATOR
28F2908-1	1ER	35	COVER-FURN-ENGINE
28F030-8	1	36	HOISTING SLING-FURN.-STOWAGE
28F1209	1	37	FIRE EXTINGUISHER-FURN.-PRESSURE
28F230	1	38	INSTAL.-POCKETS-PILOT'S HANDBOOK, MAINTENANCE MANUAL & CRANK STOWAGE (FOR RETRACTING FLOATS & ANCHOR)
28F021	1	39	INSTAL.-BUNKS-FURN.
28F295	1	40	INSTAL.-HANDLES, FUEL CHART, CHECK OFF LIST MECHANIC'S COMPARTMENT
28F1455	1	41	INSTAL.-MECHANIC'S ALTIMETER, CLOCK, THERMOMETER & INCLINOMETER
28F1521	1	42	INSTAL-LIFE JACKET & BINOCULAR STOWAGE
28F177	1	43	INSTAL.-FURN.-MECHANIC'S LADDER
28F022	1	44	INSTAL-LOCKER-TOOL & MISCELLANEOUS GEAR
28F1487	2	45	ASSEM. CUSHION-FURN.-PILOT'S SEAT
28F1243	2	46	ASSEM. CUSHION-FURN.-PILOT'S SEAT BACK
28F134	1	47	INSTAL. SEAT-MECHANIC'S
22F541-20	2	48	[illegible] LIFE PRESERVER-FURN.
NAF39941	2	49	SAFETY BELT-PILOT'S [illegible]
28F1463	1	50	INSTAL.-NAVIGATOR'S PLATFORM & STEP
28F209	1	51	CRANK STOWAGE-ENGINE-FURN.
		52	SEE REF.
		53	SEE REF.
28F1015	1	54	INSTAL-PANEL-MECHANICS INSTRUMENTS
		55	SEE REF.
28F1384	1	56	STOWAGE- REAR ENTRANCE LADDER
28F222	1	57	INSTAL.-CHEMICAL TOILET.
		58	SEE REF.
28F1100	1	59	POCKET FURN.- TOILET BAG
28F1287	1	60	INSTAL.-PAD TUNNEL GUNNER
28F26[illegible]	1	61	INSTAL.-CURTAIN PILOTS COMPARTMENT.
28F1597	1	64	INSTAL.-PARACHUTE STOWAGE.
28F1091	1	66	INSTAL.-PELORUS DRIFT SIGHT MK 11B
28F278-2	1	68	INSTAL.- BOAT HOOK STOWAGE
28F015	1	69	INSTAL.- 7 MAN LIFE RAFT STOWAGE
28F1417	1	82	STOWAGE FURN.- SNUBBING POST BOW
28F1068	1	83	INSTAL.- FURN. DRAFT CURTAIN-BULKHEAD #1
[illegible]	[illegible]	[illegible]	[illegible] LADDER-REAR
		85	SEE REF.
[illegible]	[illegible]	[illegible]	[illegible]
28F1280	1	89	INSTAL.- INTERPHONE EQUIPMENT
		90	SEE REF.
28F1502-1	1ER	91	.50 CAL. GUN ALTERNATE STOWAGE.
[illegible]	[illegible]	92	COVER-FURN-AUXILIARY POWER UNIT
[illegible]	[illegible]	[illegible]	[illegible] PLATFORM STOWAGE
28F1577	1	94	INSTAL-SEA ANCHOR STOWAGE
28F1069	1	95	.50 CAL. GUN STOWAGE-REAR GUN
28F1405	1	96	GUN STOWAGE LATCH- BOW GUN
28F1425	2	97	COVER-PROPELLER HUB
28F1559	1	98	GRIP-INSTAL.-FURN.-PILOT'S HAND
28F1562	1	99	STOWAGE-FURN.-SURFACE CONTROL LOCKS
—	—	100	FURN.-PAD RADIO OPERATOR'S SEAT
—	—	101	POCKET- INSTAL.-FURN.-SIGNAL FLAGS
—	—	102	SBAE INSTAL.-BOMBSIGHT- TO UNITS
28F1538	1	103	STOWAGE-FURN.-AIRCRAFT PROTRACTOR - AFT
28F1592	1	104	INSTAL.-FOG HORN STOWAGE
—	—	107	INSTAL.-FURN.-EXHAUST GAS ANALYZER
28F1581	1	109	STOWAGE-PROPANE STOVES
—	—	110	CLEANER- PILOTS ENCLOSURE
—	—	111	INSTAL.-TORPEDO DIRECTOR
		112	CASE- FURN-OCTANT & WATCH-STOWAGE
		113	SEE REF.
		114	SEE REF.
28A1006	1	115	INSTAL.-PARACHUTE FLARE
—	—	116	KNEE PADS-GOLDSMITH #62 OR EQ. (MISC. GEAR LOCKER)
—	—	117	FOOTREST-FURN-MECHANICS FOLDING
28A1004	1	118	TUNNEL GUN INSTALLATION
28A1005	1	119	REAR GUN INSTALLATION
28F1007	1	120	INSTAL.-OXYGEN EQUIPMENT-FURN.
28A1009	1	121	BOMBSIGHT INSTAL. MARK XV
28A1015	1	123	INSTAL - BOMB EQUIPMENT
—	—	122	TORPEDO INSTALLATION
—	—	124	INSTAL.-FURN.- STOVE & FOOD LOCKER
—	—	125	BRACKET- FURN.-FREE AIR THERMOMETER & INSTAL.
28F2012	1	176	INST.-F. FLOAT LIGHTS
28F3009	1	126	INST.-F. SCREEN- NAV'S COMP.
		127	INST.-F. NAV'S BOOK & PAPER STOW
28B1334	1	128	REVOLVING CIRCULAR WINDSHIELD- BOWGUN MOUNT
28F4081	1	129	INSTALL.- SAFETY BELT- BUNKS
		131	RELIEF TUBE INSTAL.
		132	RADIO OPERATOR'S INSTR. PANEL
			INSTAL. & HYDRAULIC EQUIPMENT & PIPING

PBY-1	28F134
PBY-2	28F134 THRU #0418
PBY-2	28F134-30 #0419 ON
PBY-3	28F134-20 #0842
PBY-3	28F134-30 #0843 ON

- \+ SHIPS #0842 TO #0845 INC.
- ✱✱ PBY-5 #1 TO 24 INC.
- △ PBY-5 C. 91876 ALL
- ○ PBY-5 C. 91876 #1 THRU #89
- □ PBY-5 C. 91876 #90 & ON
- ◇ PBY-5 C. 91876 #91 & ON

* GOV'T. FURNISHED MATERIAL (AT NO. 1201) SHIPS #0842 TO #0845 INC.

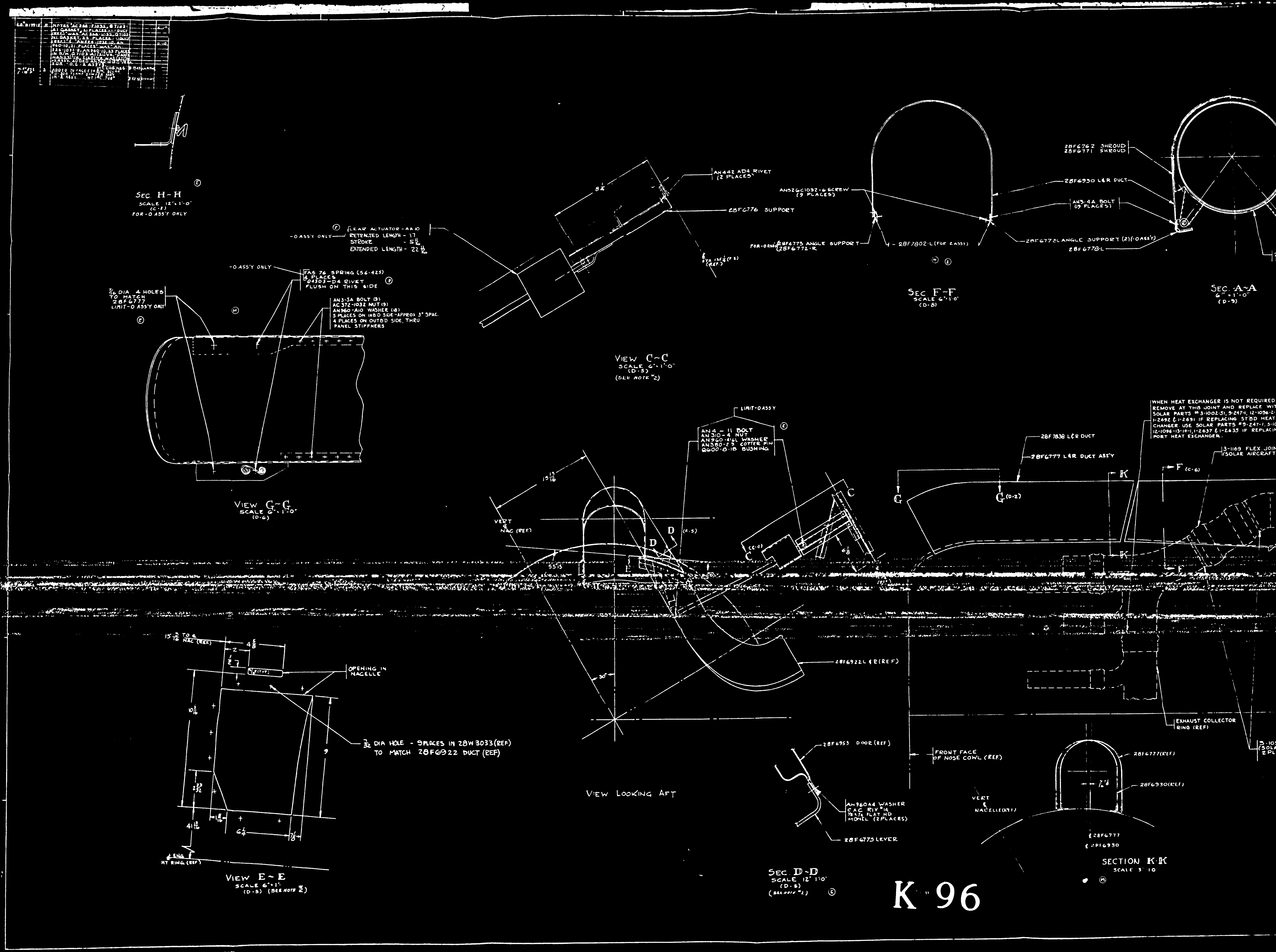
PBY-5	28F1001
XPBY-5A	28F1001
PBY-4	28F1001
PBY-3	28F1001
PBY-2	28F1001
PBY-1	28F1001

L.E.W. 7-20-37

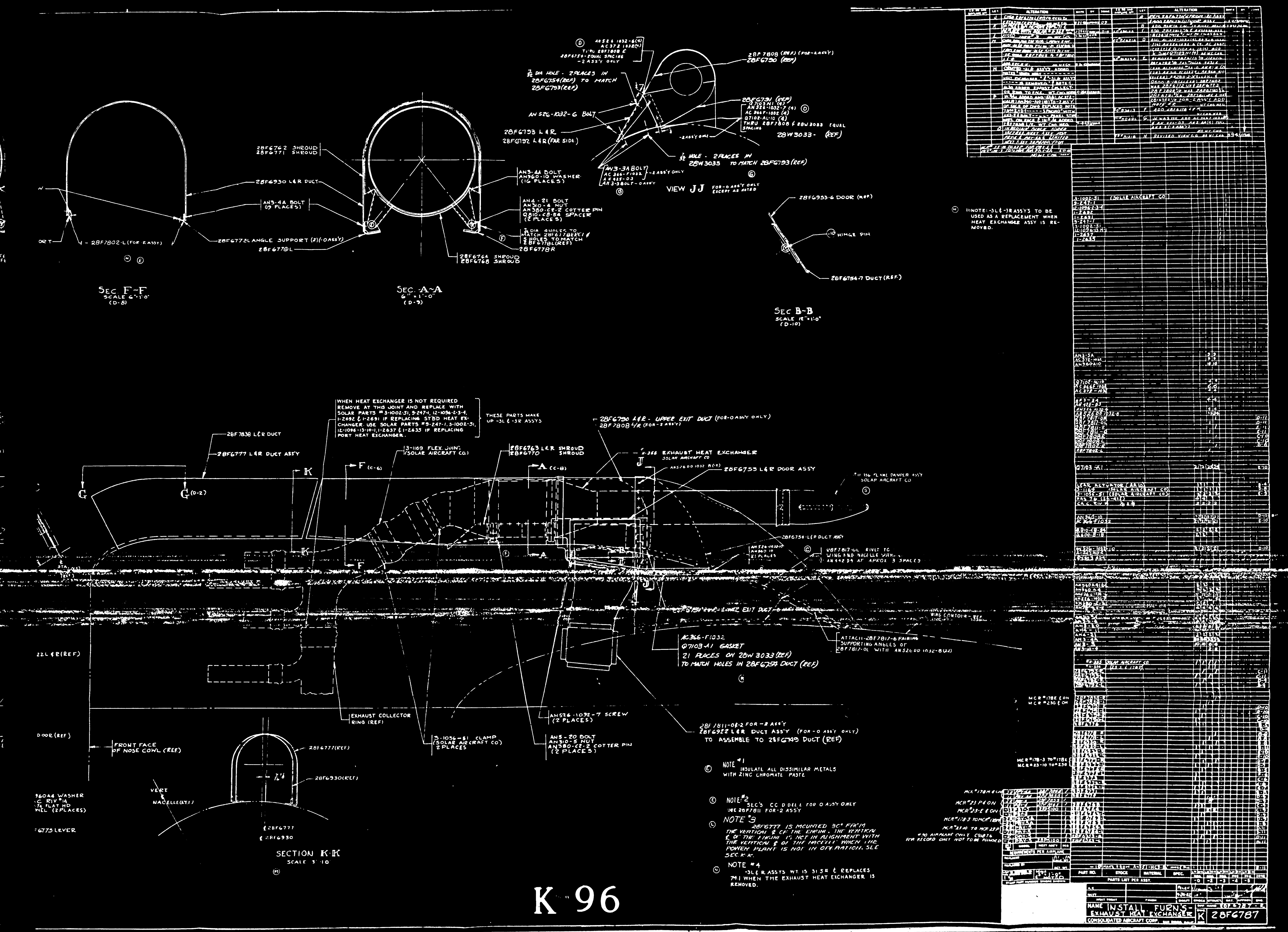
REQ. PER AIRPLANE — MAT. — PARTS LIST PER ASSY — STD. PARTS — NO. REQ. — PART NO.

NAME: INSTALLATION FURNISHINGS — K — 28F1002

R



SEC. H-H
SCALE 12" = 1'-0"
FOR-0 ASS'Y ONLY
-0 ASS'Y ONLY
LEAR ACTUATOR - AA10
RETRACTED LENGTH - 17
STROKE - 5 11/16
EXTENDED LENGTH - 22 11/16
AN442 AD4 RIVET (2 PLACES)
28F6776 SUPPORT
AN526C1032-6 SCREW (9 PLACES)
28F6773 ANGLE SUPPORT
28F6772-R
28F7802-L (FOR ASSY)
28F6762 SHROUD
28F6771 SHROUD
28F6930 L&R DUCT
AN3-4A BOLT (9 PLACES)
28F6772L ANGLE SUPPORT (2)(-0ASS'Y)
28F6778-L
SEC. F-F
SCALE 6" = 1'-0"
(D-8)
SEC. A-A
6" = 1'-0"
(D-9)
FAS 76 SPRING (56-425)
6 PLACES
AD3-D4 RIVET
FLUSH ON THIS SIDE
AN3-5A BOLT (9)
AC 372-1032 NUT (9)
AN960-A10 WASHER (18)
5 PLACES ON INBD SIDE-APPROX 3" SPAC.
4 PLACES ON OUTBD SIDE, THRU
PANEL STIFFNERS
7/16 DIA 4 HOLES
TO MATCH
28F6777
LIMIT-0 ASS'Y ONLY
VIEW C-C
SCALE 6" = 1'-0"
(D-5)
(SEE NOTE #2)
VIEW G-G
SCALE 6" = 1'-0"
(D-6)
LIMIT-0 ASS'Y
AN4-11 BOLT
AN310-4 NUT
AN960-416L WASHER
AN380-2-3 COTTER PIN
Q600-8-18 BUSHING
28F7838 L&R DUCT
28F6777 L&R DUCT ASS'Y
WHEN HEAT EXCHANGER IS NOT REQUIRED
REMOVE AT THIS JOINT AND REPLACE WITH
SOLAR PARTS
PORT HEAT EXCHANGER.
VERT
NAC (REF)
28F6922 L&R (REF)
OPENING IN NACELLE
7/32 DIA HOLE - 9 PLACES IN 28W3033 (REF)
TO MATCH 28F6922 DUCT (REF)
VIEW LOOKING AFT
28F6953 DOOR (REF)
AN960A4 WASHER
28F6773 LEVER
FRONT FACE
OF NOSE COWL (REF)
EXHAUST COLLECTOR
RING (REF)
28F6777 (REF)
28F6930 (REF)
VERT
NACELLE (REF)
SECTION K-K
VIEW E-E
SCALE 6" = 1'
(D-5) (SEE NOTE 2)
SEC. D-D
SCALE 12" = 1'-0"
(D-8)
K 96


SEC. F-F
SCALE 6"=1'-0"
(D-8)
SEC. A-A
6" = 1'-0"
(D-9)
VIEW JJ
SEC B-B
SCALE 12"=1'-0"
(D-10)
SECTION K-K
28F6762 SHROUD
28F6771 SHROUD
28F6930 L&R DUCT
AN3-4A BOLT (19 PLACES)
28F6772 ANGLE SUPPORT
28F6778-L
28F6778R
AN3-4A BOLT
AN960-10 WASHER (16 PLACES)
AN4-21 BOLT
AN310-4 NUT
AN380-C2-2 COTTER PIN
28F6764 SHROUD
28F6768 SHROUD
AN526-1032-6 BOLT
28F6793 L&R
28F6792 L&R (FAR SIDE)
28F7808 (REF) (FOR-2 ASS'Y)
28F6750 (REF)
28F6791 (REF)
28W3033 - (REF)
28F6953-6 DOOR (REF)
HINGE PIN
28F6754-7 DUCT (REF)
NOTE: -3L & -3R ASSY'S TO BE USED AS A REPLACEMENT WHEN HEAT EXCHANGER ASSY IS REMOVED.
WHEN HEAT EXCHANGER IS NOT REQUIRED REMOVE AT THIS JOINT AND REPLACE WITH SOLAR PARTS #3-1002-31, 9-247-1, 12-1056-2-3-4, 1-2692 & 1-2691 IF REPLACING STBD HEAT EXCHANGER. USE SOLAR PARTS #9-247-1, 3-1002-31, 12-1056-13-14-1, 1-2637 & 1-2635 IF REPLACING PORT HEAT EXCHANGER.
THESE PARTS MAKE UP -3L & -3R ASSYS
28F7838 L&R DUCT
28F6777 L&R DUCT ASS'Y
3-1169 FLEX JOINT (SOLAR AIRCRAFT CO.)
28F6763 L&R SHROUD
28F6770 SHROUD
28F6790 L&R - UPPER EXIT DUCT (FOR-0 ASS'Y ONLY)
EXHAUST HEAT EXCHANGER SOLAR AIRCRAFT CO
28F6753 L&R DOOR ASSY
28F6754-L&R DUCT ASSY
AC366-F1032
Q7103-A1 GASKET
21 PLACES ON 28W 3033 (REF) TO MATCH HOLES IN 28F6754 DUCT (REF)
WING CONTOUR - REF
EXHAUST COLLECTOR RING (REF)
FRONT FACE OF NOSE COWL (REF)
3-1056-81 CLAMP (SOLAR AIRCRAFT CO) 2 PLACES
AN526-1032-7 SCREW (2 PLACES)
AN5-20 BOLT
AN310-5 NUT
AN380-C2-2 COTTER PIN (2 PLACES)
28F7811-0&-2 FOR -2 ASS'Y
28F6922 L&R DUCT ASS'Y (FOR-0 ASS'Y ONLY) TO ASSEMBLE TO 28F6749 DUCT (REF)
NOTE #1 INSULATE ALL DISSIMILAR METALS WITH ZINC CHROMATE PASTE
NOTE #2
NOTE #3 28F6777 IS MOUNTED 30° FROM THE VERTICAL ℄ OF THE ENGINE. THE VERTICAL ℄ OF THE ENGINE IS NOT IN ALIGNMENT WITH THE VERTICAL ℄ OF THE NACELLE WHEN THE POWER PLANT IS NOT IN OPERATION. SEE SEC. K-K.
NOTE #4 -3L & R ASSYS WT. IS 31.5# & REPLACES 74.1 WHEN THE EXHAUST HEAT EXCHANGER IS REMOVED.
VERT
NACELLE
28F6777(REF)
28F6930(REF)
PART NO.
STOCK
MATERIAL
SPEC.
PARTS LIST PER ASSY.
NAME INSTALL. FURN'S - EXHAUST HEAT EXCHANGER
CONSOLIDATED AIRCRAFT CORP.
K
28F6787

K 96

CONSOLIDATED AIRCRAFT CORPORATION

San Diego, California

Page

Date 6-18-42

Model PBY-5
Cont. #91876

Report No. 2825060

MARKING AND STENCILING

ALL INSIGNIA AND MARKINGS TO

CONFORM WITH SPEC. [illegible]

REPORT NO. [illegible]

CONSOLIDATED AIRCRAFT CORPORATION

San Diego, California

Model PBY-5 Airplane   Report No. 2525040

Cont. #91876

MARKING & STENCILING

ALL INSIGNIA & MARKINGS TO

CONFORM WITH SPEC. [illegible]

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS FOR [illegible] #1	MARKING
ANCHOR [illegible]	TO CONFORM WITH [illegible]	
WINDSHIELD COVER	STENCIL ON TOP OF COVER, IN WHITE PAINT	NO STEP
	STENCIL ON BOTTOM	PBY-5 BU.
SLOT COVER	STENCIL ON TOP OF COVER, IN WHITE PAINT	NO STEP
	STENCIL ON INSIDE	PBY-5 BU.
BOMBING WINDOW COVER	TO CONFORM WITH [illegible]	
FIRING KEY POCKET	TO CONFORM WITH [illegible]	
[illegible] BRACKET	STENCIL ON TOP FACE OF BRACKET	PBY-5 BU.
[illegible] BRACKET MOUNTING	ON INSIDE VERTICAL FACE OF [illegible] TO THE LEFT OF [illegible] SLOT OPENING	[illegible] BRACKET [illegible]
[illegible] BRACKET STOWAGE	STARBOARD SIDE BETWEEN FRAMES [illegible] [illegible]	[illegible] BRACKET
[illegible]	[illegible]	[illegible]
[illegible] SHIELD	[illegible] LEFT OF [illegible] SLOT OPENING	[illegible]
[illegible] WINDSHIELD LOCK	[illegible] LOCATED TO THE LEFT OF [illegible]	LOCK

MARKING & STENCILLING

ALL INSIGNIA & MARKINGS TO CONFORM WITH SPEC. SR-2A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS FORWARD BULKHEAD #1	MARKING
GUN STOWAGE	BELOW GUN STOWAGE - STBD. SIDE BETWEEN FRAMES 0.66 - 1.00	GUN STOWAGE
SEAT BACK	BETWEEN STRAPS ON SKIN, STBD. SIDE BETWEEN FRAMES 0.66 - 1.00	SEAT BACK
TURRET ARMOR PLATE	PORT SIDE BETWEEN FRAMES 0.33 - 0.66 ON SIDE OF ANCHOR BOX	TURRET ARMOR PLATE
MACHINE GUN ARMOR PLATE	PORT SIDE BETWEEN FRAMES 0.33 - 0.66 ON DECK BELOW ANCHOR BOX	MACHINE GUN ARMOR PLATE
CRANK FOR OPERATING ANCHOR REEL	PORT SIDE BETWEEN FRAMES 0.33 - 0.66 ON ANCHOR BOX	USE CRANK IN MECHANIC'S COMPARTMENT FOR OPERATING ANCHOR REEL
OPERATING ANCHOR	PORT SIDE BETWEEN FRAME 0.66 - 1.00 ON ANCHOR BOX	PULL FOR BRAKE ANCHOR IN ⟶ FREE LOCK PAWL
[illegible] STOWAGE	[illegible] 1.00 STENCIL IN CENTER OF [illegible]	[illegible]
[illegible]	STENCIL [illegible] BLACK	[illegible]
HAND HOLE COVER	ON INSIDE	PBY-5 NO.
BOMBER'S WINDOW COVER STOWAGE	STARBOARD SIDE, BETWEEN STATION #0.66 - #2.0, BETWEEN STRINGERS #16[illegible] - #162, STENCIL ON SKIN	BOMBER'S WINDOW COVER

Model PBY-5 Airplane Report No. 2825060

MARKING & STENCILING

ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED.

TITLE	INSTRUCTIONS BETWEEN BLKHD. #1 & 2	MARKING
RUDDER PEDAL	PAINT FOOT REST BLACK	
PILOT'S SEAT ARM REST	BOTTOM OF EACH ARM REST	PBY-5 NO.
BULKHEAD #2	ON C_L [illegible] ABOVE DOOR, STENCIL	2
DOOR	NEAR TOP, STENCIL	2
	STENCIL ALSO AS PER 28[illegible]16	
TUNING UNIT & SWITCH BOXES	FORWARD SIDE OF BULKHEAD #2. TO CONFORM WITH 28[illegible]	
DRAFT CURTAIN	ON DOOR OF CURTAIN, TOP CENTER, STENCIL	28F1068-30 PBY-5 NO.
SPOTLIGHT STOWAGE	PORT SIDE, STA. 1.66 - 2.00 STENCIL ON DOOR SKIN INSIDE SPOTLIGHT BRACKET	SPOTLIGHT
FLARE RELEASE HANDLE	ABOVE DOOR ON BULKHEAD #2. LOWER FACE OF FLARE RELEASE HANDLE BRACKET, STENCIL	FLARES
GYRO PILOT CONTROL	ON TOP CENTERLINE BLKD. #2 STENCIL ON BOTH SIDES OF [illegible] 1/2" WHITE	GYRO PILOT [illegible]
[illegible]	[illegible] OUTBOARD (STBD SIDE) OF FLARE RELEASE [illegible]	[illegible]
ELEC. SW. BOX STOWAGE	ON BLKD. #2 OVER DOOR OUTBOARD (PORT SIDE) OF FLARE RELEASE BRKT. STENCIL BETWEEN TOP FLUSH LOCATING HOLES 1/2" WHITE	ELEC. SW. BOX

[illegible]

CONSOLIDATED AIRCRAFT CORPORATION

TITLE

[illegible]

TITLE [illegible]

[illegible]

[illegible]

[illegible]

TITLE	INSTRUCTIONS [illegible] (P. A.)	MARKING
[illegible] ANT. STOWAGE	[illegible] ANT. [illegible]	
ANTENNA RELAY STOWAGE	[illegible] ANTENNA [illegible] RELAY [illegible]	

TITLE	INSTRUCTIONS [illegible] (P. A.)	MARKING
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible] INSTRUMENT PANEL	[illegible] PANEL [illegible]	
[illegible]	[illegible]	

ANTENNA

D.C. VOLTAGE REG. TO CONFORM WITH [illegible]

Model PBY-5 Report No. #[illegible]

MARKING & STENCILING

ALL INSIGNIA & MARKING TO

CONFORM WITH SPEC. [illegible]

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS (BETWEEN BLK'D #3 & #4)	MARKING
NAVIGATOR'S VENTILATOR	ON SKIN JUST AFT OF NAVIGATOR'S VENTILATOR, STENCIL ON END OF [illegible], TO CONFORM WITH [illegible] and [illegible]	CAUTION: KEEP NAVIGATOR'S VENTILATOR CLOSED DURING TAKE-OFF & LANDING
SIGNAL FLAGS STOWAGE	TO CONFORM WITH #[illegible]	
GENERATOR CONTROL BOXES	ON STB'D SIDE, ON WALL OF BLK'D #4, ABOVE TOP END OF [illegible] BOX, STENCIL	PORT GENERATOR CONTROL
NAVIGATOR'S WINDOW SCREEN	TO CONFORM WITH #[illegible]	
AC FUSE BOX	STB'D SIDE OF BLK'D #4, [illegible], ON BOX COVER, STENCIL	AC FUSES
FLOAT SWITCH BOX COVER	FWD SIDE - BLK'D #4, STB'D SIDE ALONG TOP OF BOX COVER ALSO 1/4" WHITE INSIDE OF BOX BY [illegible]	FLOAT CONTROL
OXYGEN REBREATHER	ON BRKT, LOWER BLK'D #4 STB'D SIDE STENCIL 1/4" [illegible]	OXYGEN REBREATHER
FLOAT CONTROL	PORT SIDE OF BLK'D #4 ON BOX OF FLOAT SWITCH BOX	FLOAT CONTROL
[illegible]	STB'D [illegible] STENCIL 1/2" WHITE ON [illegible]	[illegible]
[illegible]	[illegible] ABOVE DOOR, STENCIL ON BOX [illegible]	[illegible]
HEATER INSTRUCTIONS	ON HEATER SWITCH BOX STENCIL TO CONFORM TO PRINT #[illegible]	

CONSOLIDATED AIRCRAFT CORPORATION

[illegible]

[illegible]

TITLE [illegible]

[illegible]

MAINTENANCE
[illegible]

[illegible]

LOCATION [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
AUXILIARY [illegible] UNIT [illegible] [illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible] MARINE
AUX. [redacted] UNIT IND. A.C.[redacted].C.	TO CONFORM TO [illegible]
A.C. CONDENSER [illegible]	TO CONFORM TO [illegible]

[illegible]

[illegible]

TITLE	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]
FORWARD SIDE BULKHEAD #7	TO CONFORM WITH [illegible]

[illegible]

CONSOLIDATED AIRCRAFT CORPORATION

[illegible]

ACTUATOR [illegible]

[illegible]

CONSOLIDATED AIRCRAFT CORPORATION

TO CONFORM WITH [illegible]
[illegible]

[illegible]

CONSOLIDATED AIRCRAFT CORPORATION

San Diego, California

Page

Date - 6/4/43

Model PBY-5 Airplane

Cont. #91876

Report No. 2325090

MARKING AND STENCILING

ALL INSIGNIA AND MARKING TO

CONFORM WITH SPEC. SR-2C

REPORT NO. 2325090

By RODRIGUEZ

Checked C J KRUK

Approved [illegible]

M Vich[illegible]

FBY-5 [illegible]

[illegible]

[illegible]

[illegible]

TITLE	INSTRUCTIONS [illegible]	MARKING
[illegible]	[illegible]	
[illegible]	[illegible] WHITE PAINT	[illegible]
	[illegible]	[illegible]
[illegible]	[illegible] WHITE PAINT	[illegible]
	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible] BRACKET STORAGE	[illegible]	[illegible] BRACKET

[illegible]

MARKING & STENCILING [illegible]

[illegible]

TITLE	[illegible]	MARKING
[illegible]	[illegible] FRAMES [illegible]	[illegible]
SEAT BACK	[illegible] FRAMES [illegible]	[illegible]
[illegible] ARMOR PLATE	[illegible] FRAMES [illegible]	[illegible] ARMOR PLATE
[illegible]	[illegible] FRAMES [illegible]	[illegible] ARMOR PLATE
[illegible]	[illegible] FRAMES [illegible]	[illegible]
[illegible]	[illegible] FRAMES [illegible]	[illegible] FRAME [illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible] FRAMES [illegible] STENCIL [illegible]	[illegible]

[illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

TITLE	[illegible] #2	[illegible]
[illegible]	[illegible] 1.00 - [illegible]	[illegible]

TITLE	[illegible] #1 & 2	[illegible]
[illegible]	[illegible] PLACE	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	
	[illegible]	
[illegible]	[illegible] #2, [illegible]	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible] #2 [illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

PHY-[illegible]

[illegible]

[illegible]

[illegible]

TITLE	[illegible]	MARKING
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible] FFY-4 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

TITLE	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

MARKING & STENCILING

[illegible]

TITLE	[illegible]	MARKING
[illegible]	[illegible]	[illegible]
TRANSMITTER [illegible]	[illegible]	TRANSMITTER
[illegible]	[illegible]	TRANSMITTER [illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

TITLE	[illegible]	MARKING
[illegible]	[illegible] BLACK LETTERS	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible] WHITE LETTERS	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible] BETWEEN [illegible]	
	[illegible]	

[illegible]

PBY-5 [illegible]

MARKING & [illegible]

[illegible] MARKING [illegible]

[illegible]

[illegible]

[illegible]	[illegible]	MARKING
FKN	[illegible]	FKB
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	MARKING
[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

PBY-5

MARKINGS [illegible]

ALL INDIVIDUAL MARKINGS

[illegible]

[illegible]

TITLE	[illegible]	MARKING
ANTI-ICER TANK	ANTI-ICER TANK, [illegible] BLANK [illegible] TANK	ANTI-ICER TANK
PRE-HEATER [illegible] STRAINER	[illegible]	PRE-HEATER [illegible]
[illegible] TANK	PAINT [illegible] TANK [illegible]	[illegible]
TANK	[illegible] TANK, [illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

TITLE [illegible]

[illegible]

TITLE [illegible]

[illegible]

PBY-5 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

TITLE	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

TITLE	[illegible]	MARKING
[illegible]	[illegible]	

[illegible]

PBY-5

[illegible]

[illegible]

[illegible]

[illegible]

PBY-5

TITLE | [illegible] | MARKING

[illegible]

PBY-5 [illegible]

MARKING & STENCILING

ALL [illegible] & MARKING [illegible]

[illegible]

ALL [illegible]

TITLE	[illegible]	MARKING
OIL TANK ASSEMBLY	[illegible]	
STARTER [illegible] RELEASE AND STARTER CRANK	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	

TITLE	[illegible]	MARKING
MAIN [illegible]	[illegible]	
[illegible]	[illegible]	

TITLE	[illegible]	MARKING
[illegible]	[illegible]	
[illegible]	[illegible]	
GENERAL:	[illegible] & MARKING [illegible]	

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

TITLE	[illegible]	MARKING
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	

TITLE	[illegible]	MARKING
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	

[illegible]

[illegible]

[illegible]

[illegible]

TITLE	DESCRIPTION	MARKING
MAIN FUEL TANK STRAINER	[illegible] PANEL, [illegible]	MAIN FUEL TANK STRAINER
[illegible] TANK ACCESS [illegible]	[illegible]	[illegible] TANK
[illegible]	[illegible]	
[illegible]	[illegible]	

CONSOLIDATED AIRCRAFT CORPORATION

1UY-5A

C-NCa(a)-464

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

CONSOLIDATED AIRCRAFT CORPORATION [illegible]

PBY-5A
C-[illegible]

ZP25514
Sheet 1 of 25
PBY-5A

MARKING & STENCILING
ALL [illegible] TO
CONFORM WITH [illegible]
EXCEPT AS NOTED [illegible] ZP-25570
REPORT ZP25514

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED.

TITLE	INSTRUCTIONS	MARKING
ANCHOR REEL HOUSING	FORWARD BULKHEAD #1 TO CONFORM WITH [illegible]1012-65	
WINDSHIELD COVER	STENCIL ON TOP OF COVER, IN WHITE PAINT	NO STEP
	STENCIL ON BOTTOM	PBY-5A NO.
SLOT COVER	STENCIL ON TOP OF COVER, IN WHITE PAINT	NO STEP
	STENCIL ON INSIDE	PBY-5A NO.
FIRING KEY POCKET	TO CONFORM WITH [illegible]	
PELORUS BRACKET	STENCIL ON TOP FACE OF BRACKET	PBY-5A NO.
PELORUS BRACKET STOWAGE	STARBOARD SIDE BETWEEN FRAMES #0.16 & #1.00, BETWEEN STRINGERS #[illegible] & #160, STENCIL ON SKIN	PELORUS BRACKET
NOSE WHEEL CYLINDER	STENCIL ON TOP OF CYLINDER	NOSE WHEEL CYLINDER
BOMBER'S BACK REST	INSIDE TOP CHANNEL	PBY-5A NO.
REVOLVING WINDSHIELD	STENCIL ON FACE OF SHIELD, TO LEFT OF [illegible]	[illegible]
REVOLVING WINDSHIELD [illegible]	[illegible] TOP LEFT OF GUN CARRIAGE	[illegible] LOCK
[illegible] COVER	STENCIL [illegible] PAINT THE UPPER AFT AREA BLACK	
HAND HOLE COVER	ON INSIDE	PBY-5A NO.
SENDING POST STOWAGE	TO CONFORM WITH [illegible]	PBY-5A NO.

Approved [illegible]

MARKING & STENCILING
ALL [illegible] TO [illegible]
[illegible]
EXCEPT AS NOTED OTHERWISE ON 2825670

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS FORWARD BULKHEAD #1	MARKING
SNUBBING POST BAR STORAGE	TO CONFORM WITH [illegible]	
NOSE LANDING GEAR	PAINT TOP SURFACE OF 2825096 AND 2825097 DOWN BUMPER WHITE COLOR AFTER FINAL FINISH. WHITE PAINT IS NOT TO BE COVERED WITH PARALKETONE.	
NOSE LANDING GEAR RELEASE	STENCIL ON TOP OF NOSE LANDING GEAR RELEASE	NOSE L.G. RELEASE
GUN STORAGE	STENCIL BELOW GUN STORAGE - STARBOARD SIDE BETWEEN FRAMES 0.66 & 1.00	GUN STORAGE &
SEAT BACK	BETWEEN STRAPS ON BACK STARBOARD SIDE BETWEEN FRAMES 0.66 & 1.00	SEAT BACK
TURRET ARMOR PLATE STORAGE	PORT SIDE BETWEEN FRAMES 0.33 & 0.66 ON SIDE OF ANCHOR BOX - STENCIL	TURRET ARMOR PLATE
CRANK FOR OPERATING ANCHOR REEL	PORT SIDE BETWEEN FRAMES 0.33 & 0.66 ON ANCHOR BOX - STENCIL	THE CRANK IN MECHANIC'S COMPARTMENT FOR OPERATING ANCHOR [illegible]
[illegible] OPERATING ANCHOR	PORT SIDE BETWEEN FRAMES [illegible] 1.00 ON ANCHOR [illegible] STENCIL	[illegible]
OXYGEN RESPIRATOR STORAGE	PORT SIDE BETWEEN FRAMES 0.66 & 1.00 - STENCIL IN CENTER OF BRACKET	OXYGEN RESPIRATOR
MACHINE GUN ARMOR STORAGE	PORT SIDE BETWEEN FRAMES 0.66 & 1.00 ON BACK BELOW ANCHOR BOX	MACHINE GUN ARMOR PLATE

CONSOLIDATED AIRCRAFT CORPORATION

MODEL PBY-5A

C-NOa(s)-464

MARKING & STENCILING
[illegible]
[illegible]
EXCEPT AS NOTED ... 2025070

2025514
Sheet 5 of 25
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #1	MARKING
PELORUS BRACKET MOUNTING	ON INSIDE VERTICAL FACE OF TURRET BETWEEN UPRIGHTS 9 & 10 TO THE LEFT OF THE SLOT OPENING	PELORUS BRACKET (3/8 INCH LETTERS)
BUOY LOCK STOP	STARBOARD SIDE ON STRAPS BELOW AMMUNITION RACK - STENCIL ON STRAPS	BUOY LOCK
BOMBER'S WINDOW COVER	STENCIL AT TOP	TOP
	STENCIL ON LOCK	LOCK
VISUAL INDICATOR	STARBOARD SIDE BETWEEN FRAMES 1.66 & 2.00	VISUAL INDICATOR

Model PBY-5A
C-NOa(s)-464

MARKING & STENCILING
ALL [illegible] TO [illegible]
[illegible]
EXCEPT AS [illegible] ON [illegible] 28S070

28S5514
Sheet 4 of 25
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #1 & #2	MARKING
SURFACE CONTROL LOCK	ALONG HANDLE OF LOCK, STENCIL IN WHITE LETTERS 1/4" HIGH	CONTROL LOCK PBY-5A NO.
CONTROL LOCK STOWAGE	ON PORT SIDE FORWARD OF BULKHEAD #2, STENCIL	CONTROL LOCK
PELORUS BRACKET	ON BRACKET STENCIL	PBY-5A NO.
APC COVERS	ON INSIDE OF METAL APC COVERS, STENCIL	PBY-5A NO.
GEAR ACCUMULATOR	ON GEAR ACCUMULATOR, STENCIL IN BLACK LETTERS 1/4"	GEAR ACCUMULATOR
BRAKE ACCUMULATOR	ON BRAKE ACCUMULATOR STENCIL IN BLACK LETTERS 1/4"	BRAKE ACCUMULATOR
UNLOADING VALVE	STENCIL ON PLATFORM OF VALVE IN 1/4" BLACK LETTERS	UNLOADING VALVE
NOSE WELL VENT	VERTICAL ON NOSE WHEEL VENT, IN 1/4" BLACK LETTERS	NOSE WELL VENT
HYDRAULIC HAND PUMP	STENCIL ON FLOOR AFT OF PUMP, IN 1/4" BLACK LETTERS	HYDRAULIC HAND PUMP
BULKHEAD #2	ON BOTH SIDES ABOVE DOOR STENCIL	2
DOOR [illegible]	[illegible]	[illegible]
FLARE RELEASE HANDLE	ABOVE DOOR ON BULKHEAD #2 LOWER FACE OF FLARE RELEASE HANDLE BRACKET STENCIL IN WHITE PAINT	FLARES
TUNING UNIT & SPARES BOX	[illegible] CONFORM WITH 28P6929	
WINDSHIELD COVER STOWAGE	STARBOARD SIDE BULKHEAD #1 STENCIL ON STRAP	REVOLVING WINDSHIELD COVER

Model PBY-5A
C-NOa(s)-464

2825514
Sheet 5 of 25
PBY-5A

MARKING & STENCILING
ALL [illegible] TO
[illegible]
EXCEPT AS [illegible] 28F5070

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #1 & #2	MARKING
GYRO PILOT CONTROL	ON TOP CENTERLINE BULKHEAD #2 STENCIL ON BOTH SIDES OF PULLEY BRACKET 1/2" WHITE	GYRO PILOT SERVO CONTROL ON-OFF
TRANSMISSION CONTROL BOX STORAGE	ON BULKHEAD #2 OVER DOOR FACING OUTBOARD (STARBOARD) SIDE OFF-PLANE RELEASE BRACKET STENCIL BETWEEN LOCATING HOLES 1/2" WHITE	TRANS. CONTROL BOX
PARKING BRAKE MECHANISM	BELOW WINDSHIELD [illegible] ON STARBOARD SIDE, STENCIL IN 1/4" WHITE LETTERS	PARKING BRAKE
RUDDER PEDAL	STENCIL ACROSS PEDAL IN 1/2" WHITE LETTERS	BRAKE
PILOT'S SEAT ARM REST	BOTTOM OF EACH ARM REST	PBY-5A NO.
DRAFT CURTAIN	ON DOOR OF CURTAIN, TOP CENTER STENCIL.	28F7015 PBY-5A NO.
BOMBER'S WINDOW COVER STORAGE	ON PORT SIDE FORWARD OF BULKHEAD #2	BOMBER'S WINDOW COVER
OXYGEN REGULATOR	ON PORT & STARBOARD SIDE FORWARD [illegible] BRACKET - STENCIL	OXYGEN REGULATOR [illegible] LETTERS)
DOOR LOCK	ON BOTH SIDES OF DOOR OVER HANDLE	LOCK LOCK
[illegible]	[illegible] BOARD	[illegible]
SEAT COVER STORAGE	ON STARBOARD SIDE AFT BULKHEAD #1, ON AFT END STENCIL VERTICALLY	SEAT COVER

CONSOLIDATED AIRCRAFT CORPORATION

PBY-5A

C-20a(s)-464

[illegible]

2025514
Sheet 6 of 25
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BULK. #1 & #2	MARKING
STEPS	PORT & STARBOARD SIDE ON OPENING STENCIL IN WHITE	STEP
PILOT'S ESCAPE HATCH	PAINT LATCHES 2082262 (PORT & STARBOARD) SEMI-GLOSSY RED AND IN 1/4" HIGH LETTERS ON PLEXIGLAS REINFORCEMENTS 2082259-1 & 2082259-8 (PORT & STARBOARD) STENCIL WITH SEMI-GLOSSY RED	ESCAPE HATCH
RECEIVER SWITCH BOX STORAGE	ON BULKHEAD #2 OVER DOOR - PORT SIDE - STENCIL BETWEEN 2 LOCATING HOLES - 1/2" WHITE	REC. SW. BOX
REMOTE TUNER STORAGE	ON BULKHEAD #2 OVER DOOR BELOW RECEIVER SWITCH BOX STENCIL 1/2" WHITE	REMOTE TUNER
PILOT'S STEP	ON FORE & AFT HORIZONTAL MEMBER OF PILOT'S FLOOR SUPPORT BETWEEN CATWALK & PILOT'S FLOOR PORT & STARBOARD - 1/2" WHITE	STEP
CHART BOARD	ON REAR BRACE UNDER PILOT'S SEAT PORT SIDE	CHART BOARD

PBY-5A

C-80a(8)-6.

MARKED & STENCILLED
ALL [illegible] TO
[illegible]
EXCEPT AS [illegible] OF 2[illegible]070

2825524
Sheet 7 of 25
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #2 & #3	MARKING
RADIO EQUIPMENT	TO CONFORM WITH 20[illegible]	
TRANSMITTER SUPPORT	STARBOARD SIDE, BETWEEN FRAMES 2.5 & 3.0, ON REAR CHANNEL OF LOWER BRACKET, STENCIL	ON TRANSMITTER
	ALSO TO CONFORM WITH [illegible]	
JUNCTION BOX	ON JUNCTION BOX COVER, AFT OF FRAME 2.5, STENCIL TO CONFORM WITH [illegible]	
BOMBSIGHT COVER STOWAGE	PORT SIDE BETWEEN FRAMES 2.00 & 2.50 JUST FORWARD OF NAVIGATOR'S TABLE - STENCIL ON STRAP	BOMBSIGHT COVER
BOMBSIGHT COVER	STENCIL ON OUTSIDE OF COVER	BOMBSIGHT TO BE AT LOWEST POSITION
COMPASS MOUNT	ON PORT SIDE ABOVE BULKHEAD [illegible] BETWEEN BRACKETS	COMPASS MOUNT
OXYGEN RESPIRATOR STOWAGE	PORT SIDE OVER AND OVER FORWARD END NAVIGATOR'S TABLE IN CENTER OF BRACKET STENCIL	OXYGEN RESPIRATOR
FLARE STOWAGE [illegible]	[illegible] BETWEEN FRAMES 2.50 & 3.00 ON RACKS STENCIL	FLARES
[illegible]	[illegible] STENCIL ON STRAPS	NAVIG. CASE
ASTRODOME[illegible]	[illegible] STENCIL ON BOTH SIDES	[illegible]
EMERGENCY [illegible] LOWERING BAR STOWAGE	AFT SIDE BULKHEAD #2 - PORT SIDE	[illegible] LOWERING BAR

CONSOLIDATED AIRCRAFT CORPORATION

U. S. PBY-5A

C-570(s)-468

MARKING & STENCILING
ALL [illegible] TO
[illegible]
EXCEPT AS [illegible] 2025970

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #2 & #3	MARKING
VISUAL INDICATOR	STARBOARD SIDE - ON RADAR OPERATOR'S TABLE	VISUAL INDICATOR
AND RECEIVER	STARBOARD SIDE ABOVE ON TRANSMITTER - STENCIL AT BASE	RECEIVER
AND TRANSMITTER	STARBOARD SIDE ON [illegible] FORWARD SIDE - AT BASE	TRANSMITTER
PHANTOM ANTENNA STOWAGE	STARBOARD SIDE ABOVE VISUAL INDICATOR ON STRINGER	PHANTOM ANTENNA
[illegible]	STENCIL [illegible]	[illegible] TO BE AT [illegible] POSITION

PBY-5A
C-N0a(s)-[illegible]

MARKING & STENCILING
[illegible] TO
[illegible]
EXCEPT AS [illegible] 5070

N-5531

PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKS. #5 & #6	MARKING
RADIO OPERATOR'S LOCKER	STARBOARD SIDE, RADIO OPERATOR'S TABLE, STENCIL ON CENTER OF DOOR NEAR TOP	CONFIDENTIAL LOCKER & RADIO SPARES
BULKHEAD #6	FORE & AFT FACES, CENTERLINE OF SHIP, ABOVE DOOR, STENCIL	
DOOR	ON DOOR NEAR TOP, STENCIL	
	ALSO TO CONFORM WITH [illegible]	
ELECTRIC DISTRIBUTION BOX	STARBOARD SIDE INSIDE [illegible] BULKHEAD #6, TO CONFORM WITH [illegible]	
POCKET-ELECTRIC DIAGRAMS	TO CONFORM WITH [illegible]	
PROTRACTOR STORAGE	BETWEEN PROTRACTOR STORAGE STRAPS ON FLANGES OF FRAME 5.6[illegible] & 5.[illegible]	PROTRACTOR
SIGNAL FLAGS STORAGE	TO CONFORM WITH [illegible]	
OIL BOXES	(1) STARBOARD SIDE, BETWEEN FRAMES 5.[illegible] & 5.66 BETWEEN SPARE OIL BRACKETS, STENCIL ON BOX (2) STARBOARD SIDE, [illegible] BULKHEAD #6 [illegible] STENCIL [illegible]	[illegible] OILS
NAVIGATOR'S HATCH [illegible]	PORT SIDE, [illegible] SIDE OF HATCH [illegible]	
NAVIGATOR'S [illegible] LATOR	[illegible] VENTILATOR, STENCIL ON END OF [illegible], TO CONFORM WITH [illegible] & [illegible]	CAUTION: KEEP NAVIGATOR'S VENTILATOR CLOSED DURING TAKE-OFF & LANDING

CONSOLIDATED AIRCRAFT CORPORATION

PBY-5A

C-WCa(s)-61

MARKING & STENCILING
[illegible]
[illegible]
[illegible] 5070

[illegible]
Sheet 10 of 25
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #3 & #4	MARKING
NAVIGATOR'S WINDOW SCREEN	TO CONFORM WITH 28F5068	
GEAR BOX	FWD. OF BULKHEAD #4 ON CENTERLINE SHIP ABOVE DOOR STENCIL ON BOX	GEAR BOX
SPOTLIGHT STOWAGE	PORT SIDE BETWEEN FRAMES 4.00 & 4.33 ON DECK STENCIL	SPOTLIGHT
FLOAT CONTROL SWITCH BOX	FORWARD SIDE BULKHEAD #4 PORT SIDE IN CENTER OF BOX COVER STENCIL	FLOAT CONTROL
DRIFT SIGHT STOWAGE	PORT SIDE ON BOTTOM OF BOX OVER NAVIGATOR'S TABLE BETWEEN FRAMES 4.33 & 4.66	DRIFT SIGHT STOWAGE
NAVIGATOR'S VENTILATOR	STARBOARD SIDE ON VENTILATOR KNOB	OPEN (1/8" WHITE LETTERS)
RU-19 DYNAMOTOR	STARBOARD SIDE - BETWEEN 4.33 & 4.66 - IN 2 PLACES	DYNAMOTOR
RADIO JUNCTION BOX	STARBOARD SIDE - UNDER RADIO OPERATOR'S SHELF	RADIO JUNCTION BOX
HEATER INSTRUCTIONS	FORWARD BULKHEAD #4 [illegible] 1/2" RED LETTERS [illegible] "OFF" [illegible] HEATER FUEL LINE VALVE [illegible]	
RADIO EQUIPMENT	STENCIL ON RADIO TABLE TO CONFORM WITH 28F060-155. STENCIL ON RADIO SHELF TO CONFORM WITH 28F5065	

CONSOLIDATED AIRCRAFT CORPORATION

PBY-5A

C-N[illegible]-6

MARKING & STENCILING
ALL [illegible] TO
[illegible]
EXCEPT AS [illegible] OF [illegible]5970

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BULKD. #3 & #4	MARKING
RADIO OPERATOR'S INSTRUMENT PANEL	ON METAL STRAP, CENTER OF PANEL, STENCIL IN 1/4" WHITE LETTERS	OUTPUT METER
ANTENNA REEL	STARBOARD SIDE, BETWEEN FRAMES 4.0 & 4.[illegible], STENCIL ON FACE OF BRACKET	ANTENNA REEL
SPARE BULBS	PORT SIDE OF DOOR, STENCIL ON BOX IN 1/4" BLACK LETTERS	SPARE BULBS
NAVIGATOR'S OCTANT & BINOCULAR STORAGE	ON PORT SIDE AT FRAME 4.[illegible] ABOVE TABLE ON DOOR OF LOCKER, STENCIL	OCTANT AND BINOCULAR STORAGE
PELORUS DRIFT SIGHT	PORT SIDE 10" AFT OF FRAME 4.[illegible] ON STRINGER [illegible]	PELORUS
OXYGEN BOTTLE STOWAGE	PORT SIDE BULKHEAD #4, FORWARD SIDE ON CHANNEL [illegible] HEAD DECK LEVEL STENCIL	OXYGEN STORAGE
COMPASS MOUNT	AFT END OF NAVIGATOR'S TABLE	COMPASS MOUNT
AYB DYNAMOTOR	STARBOARD SIDE BULKHEAD #3 FORWARD	DYNAMOTOR
GENERATOR CONTROL BOX	STARBOARD SIDE - FORWARD BULKHEAD #4	PORT GENERATOR CONTROL
POWER JUNCTION	ON LID OF JUNCTION BOX [illegible] MAIN DISTRIBUTION PANEL	POWER JUNCTION BOX
D.C. VOLTAGE REGULATOR	[illegible] WITH [illegible]	

MODEL PBY-5A

C-50A(S)-2,6A

2F25926

Sheet [illegible] of [illegible]

PBY-5A

MARKING & STENCILING ALL [illegible] TO [illegible] EXCEPT AS [illegible] OF 2F25070

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKS. #4 & #5	MARKING
MAINTENANCE MANUAL ENGINE LOG BOOK & AIRCRAFT LOG BOOK POCKET	TO CONFORM WITH 2F[illegible]-0	
PILOT'S HANDBOOK	TO CONFORM WITH 2F21608	
KIT - MISCELLANEOUS EQUIPMENT - SPECIAL TOOL	STENCIL TO CONFORM WITH 2F[illegible]-70	
	STENCIL ALSO IN SAME LOCATION	NO.
TOOL AND MISCELLANEOUS GEAR LOCKER	PORT SIDE NEXT TO BULKHEAD #5 STENCIL ON INBOARD FACE OF GEAR LOCKER	MISCELLANEOUS GEAR LOCKER
	STENCIL ON FORWARD LOCKER	TOOL LOCKER
AUXILIARY POWER UNIT VENTILATION MARKING	ON AFT SIDE OF MECHANIC'S SEAT BACK, STENCIL IN 1" RED LETTERS	WARNING - KEEP HULL COMPARTMENT OPEN WHEN RUNNING AUX. POWER UNIT
COWL FLAPS	PORT & STARBOARD SIDE, AFT FACE OF BULKHEAD #4, BELOW MECHANIC'S INSTRUMENT PANEL, STENCIL [illegible] COWL [illegible]	COWL FLAPS [OPEN] [CLOSED]
MECHANIC'S SEAT [illegible]	TO CONFORM WITH [illegible]	[illegible]
BULKHEAD #4	FWD & AFT SIDES, & [illegible] [illegible]	
MECHANIC'S INSTRUMENT PANEL	ON SUPERSTRUCTURE ON RIGHT HAND SIDE, [illegible] STENCIL	ANGLE OF CHART
MAIN FUEL TANK DRAIN	ON SUPERSTRUCTURE [illegible] BOTH DRAIN VALVES	MAIN FUEL TANK DRAIN

CONSOLIDATED AIRCRAFT CORPORATION

PBY-5A

[illegible]

2825914
Sheet 19 of 25
PBY-5A

MARKING & STENCILING
ALL MARKING & STENCILING TO CONFORM WITH U.S.N. SPEC.
EXCEPT AS NOTED [illegible] 5070

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKS. [illegible]	MARKING
DUMP VALVE HANDLE	ON SUPERSTRUCTURE SKIN ABOVE BOTH DUMP VALVE HANDLE KNOBS	FUEL DUMP VALVE
LOCK FOR MAIN WHEELS	ON PORT & STARBOARD SIDE, ON WAP, STENCIL IN 1/2" RED LETTERS	DOWN LOCK ↗
	ON PORT & STARBOARD SIDE, ON WAP, STENCIL IN 1/2" RED LETTERS	UP LOCK →
EMERGENCY RELEASE FOR MAIN WHEELS	ON PORT & STARBOARD SIDE ON WAP, STENCIL IN 1/2" RED LETTERS	EMERGENCY RELEASE ↘
EMERGENCY LOCKING MECHANISM	10" ABOVE EMERGENCY DOOR ON PORT AND STARBOARD SIDE STENCIL IN 1/2" RED LETTERS	EMERGENCY LOCKING MECHANISM
EMERGENCY DOOR	ON DOOR, STENCIL IN 1/2" RED LETTERS	EMERGENCY DOOR
EMERGENCY RELEASE DOWN LATCHING ROD	TO CONFORM WITH [illegible]	
LUBRICATION OF LANDING GEAR	ON PORT AND STARBOARD SIDE ON RE-INFORCED ANGLE AFT SIDE FRAME [illegible] WITH ARROW POINTING TO [illegible] FITTING - STENCIL	LUBRICATE HERE
[illegible]	[illegible] BULKHEAD [illegible] THREE [illegible]	[illegible]
[illegible]	[illegible] SIDE BETWEEN FRAMES [illegible] STENCIL	[illegible]
[illegible] STOWAGE	[illegible] VICINITY OF STRAP - STENCIL	[illegible] AND ANCHOR CRANE

CONSOLIDATED AIRCRAFT CORPORATION

PBY-5A

MARKING & STENCILING
ALL PBY-5A [illegible]
[illegible]
EXCEPT AS NOTED ON SHEET [illegible] OF 2025070

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. 4 & 5	MARKING
ANTI-ICER TANK	ON ANTI-ICER TANK, PORT SIDE OF BULKHEAD #4, NEAR TOP OF TANK	ANTI-ICER TANK
AUXILIARY POWER UNIT	ON PORT SIDE AFT BULKHEAD #4 [illegible] ANTI-ICER TANK STENCIL	KEEP EXHAUST TUBES OFF ANTI-ICER
ANTI-ICER TANK	ON PORT SIDE OF BULKHEAD #4 [illegible] TANK AT CUT-OFF STENCIL	[illegible]
MAIN L.G. - UPPER MAIN STRUT	PAINT [illegible]-10 WHITE [illegible] AFTER FINAL FINISH [illegible]	
CABLE [illegible] MECHANIC'S SEAT	TO CONFORM WITH [illegible]	
AC CONTROLLER BOX	TO CONFORM WITH STENCIL	
AUXILIARY MOTOR OIL TANK	PAINT YELLOW STRIP 1/2" WIDE [illegible] OIL TANK FILLER CAP	
PRE-HEATER DUCT STORAGE	STARBOARD SIDE OF BULKHEAD #4 FORWARD SIDE BELOW DECK LINE - STENCIL	PRE-HEATER DUCT STORAGE
A POWER [illegible]	[illegible]	

MARKING & STENCILING ALL [illegible] & MARKING TO CONFORM WITH [illegible] EXCEPT AS NOTED OTHERWISE [illegible] 2[illegible]5070

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #5 & #6	MARKING
BULKHEAD #6	FORE & AFT SIDES ON CENTERLINE SHIP ABOVE DOOR, STENCIL	6
DOOR	ON DOOR NEAR TOP, STENCIL	6
	STENCIL [illegible]	
LEVELING LUGS	PROJECTING PORTION OF EACH [illegible] BE PAINTED BLACK	
	PORT SIDE ON FORWARD FACE OF BULKHEAD #6, STENCIL NEAR EACH LUG	LEVEL HERE
	PORT SIDE AT FRAMES [illegible] STENCIL ON SKIN NEAR EACH LUG	LEVEL HERE
SMOKE SIGNAL	ON AFT SIDE BULKHEAD #5 ABOVE ENTRANCE, STENCIL	SMOKE TANK CONTROL OFF ON
[illegible]	ON AFT SIDE BULKHEAD #5 ABOVE [illegible] 1/2" LETTERS	CABLE [illegible]
FIRST AID KIT	STARBOARD SIDE, FORWARD FACE [illegible]	[illegible]
[illegible]	[illegible] FORWARD [illegible] BOTTOM OF ENTRANCE [illegible] ON STRAP	[illegible]
WORKING PLATFORM STOW	ON PORT AND STARBOARD SIDE ALONG LATERAL ON [illegible] FRAMES STENCIL	WORKING PLATFORM

MARKING & STENCILING
ALL INSIGNIA & MARKINGS TO
CONFORM WITH SPEC. [illegible]
EXCEPT AS [illegible] 28-25070

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #5 & #6	MARKING
EMERGENCY M.L.G. LOWERING BAR	STANDARD SIDE FORWARD OF BULKHEAD #5	EMERG. M.L.G. LOWERING BAR
OXYGEN REGENERATOR	ON SUPERSTRUCTURE AFT OF MECHANIC'S SEAT - STENCIL IN 3/8" LETTERS	OXYGEN REGENERATOR
OXYGEN REGENERATOR	PORT AND STANDARD SIDE AFT SIDE BULKHEAD #5 ON BRACKET - STENCIL	OXYGEN REGENERATOR
DISTILLER UNIT STORAGE	PORT SIDE, STATION #5.00 TO #5.25 BETWEEN FIRST BOTTOM STRINGERS INBOARD FROM BRACKET	DISTILLER UNIT STORAGE
DISTILLER STOVE STORAGE	STANDARD SIDE, STATION #5.00 TO #5.24 BETWEEN FIRST BOTTOM STRINGERS INBOARD FROM BRACKET	DISTILLER STOVE STORAGE
[illegible]	ABOVE [illegible] ON BULKHEAD #5 AFT SIDE STENCIL ON BULKHEAD	[illegible]
SMOKE TANK CONTROL	ON BULKHEAD #5 DIRECTLY OVER [illegible]	SMOKE TANK OFF CONTROL ON
REFUELING PUMP STORAGE	STANDARD SIDE BETWEEN BULKHEADS #5 & #5.25	REFUELING PUMP STORAGE
WATER TANK [illegible]	[illegible] BULKHEAD #6 FORWARD [illegible] STENCIL ON TANK [illegible]	[illegible]
[illegible] STORAGE	[illegible] STANDARD SIDE BULKHEAD #6 STENCIL	STORAGE TAIL AIR[illegible] - STBD
[illegible]	[illegible] FURNISHED WITH SHIPS [illegible]	
[illegible]	[illegible] FURNISHED WITH [illegible]	
[illegible]	[illegible] FURNISHED WITH [illegible]	
[illegible]	[illegible] FURNISHED WITH [illegible]	

CONSOLIDATED AIRCRAFT CORPORATION

PBY-5A
C-NOa(s)-.64

<u>MARKING & STENCILING</u>
<u>ALL [illegible]</u>
<u>[illegible]</u>
<u>EXCEPT AS [illegible] 5070</u>

2825514
Sheet 17 of 25
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKD. #6 & #7	MARKING
SMOKE GRENADE HANDLE STOWAGE	ON STARBOARD SIDE OF BULKHEAD #6 ADJACENT TO STOWAGE CLIPS, STENCIL	SMOKE GRENADE HANDLE
SMOKE GRENADE CONTAINER	TO CONFORM WITH [illegible]	
SMOKE GRENADE HANDLE	ON HANDLE, STENCIL	PBY-5A NO.
LADDER STOWAGE	ON STARBOARD SIDE ABOVE LADDER NEAR STRAPS - STENCIL	LADDER
LIFE RAFT STOWAGE	STARBOARD SIDE BETWEEN FRAMES 6.6 & 6.8 STENCIL ON HULL SKIN BETWEEN STRAPS - STENCIL	LIFE RAFT
VERY PISTOL	STARBOARD SIDE BULKHEAD #6 ABOVE AMMUNITION RACK - STENCIL	VERY PISTOL
COMPASS MOUNT	AFT SIDE BULKHEAD #6 ABOVE ENTRANCE DOOR BETWEEN BRACKETS STENCIL IN 1/8" LETTERS	COMPASS MOUNT
BLISTER INSTRUCTIONS	ON AFT END BOTH ROTATING SHIELDS [illegible]	NOTICE - GASKET TO BE [illegible] AT ALL TIMES [illegible]
BLISTER MARKING NOTES	STENCIL ON SKIN AFT OF BLISTERS [illegible]	CAUTION DO NOT OPERATE ECCENTRIC HANDLE WHEN BLISTER IS IN LOCKED POSITION
BLISTER MARKING NOTES	STENCIL AFT OF [illegible] MOUNT ON BLISTER SKIN IN 1/8" RED LETTERS - BOTH BLISTERS	CAUTION (1) RELEASE LOCK COMPLETELY (2) LOWER ECCENTRIC HANDLE (3) OPEN BLISTER

CONSOLIDATED AIRCRAFT CORPORATION

[illegible]

FBY-5A

C-[illegible]

MARKING & STENCILING
ALL [illegible] & MARKING TO
[illegible]
EXCEPT AS [illegible] [illegible] OF [illegible]5070

2625514
Sheet 16 of 25
FBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLK. #6 & #7	MARKING
BLISTER LOCKS	AT AFT ENDS OF BLISTER STENCIL ON LOCKS	PORT STARBOARD

CONSOLIDATED AIRCRAFT CORPORATION

[illegible]

PBY-5A

C-[illegible](a)-[illegible]

2825[illegible]
Sheet 19 of 25
PBY-5A

MARKING & STENCILING
ALL [illegible] & [illegible] TO
CONFORM [illegible]
EXCEPT AS NOTED [illegible] 2825070

ALL LETTERS TO BE 1/[illegible]" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS AFT OF BULKHEAD #7	MARKING
BULKHEAD #7	FORE & AFT SIDES, ON CENTERLINE [illegible] OVER DOOR, STENCIL	7
ON DOOR	ON DOOR NEAR TOP, STENCIL	7
	STENCIL ALSO TO CONFORM WITH [illegible]19	
TUNNEL [illegible] DOOR	TO CONFORM WITH [illegible]	
SAFETY CABLE	STENCILED [illegible] INBOARD AFT OF SAFETY CABLE [illegible] AT FRAME 7.[illegible]	SAFETY CABLE
[illegible]	STARBOARD SIDE AFT OF FRAME 7.7[illegible] STENCIL ABOVE [illegible]	[illegible]
FLOAT LIGHT STORAGE	ON PORT AND STARBOARD SIDE BULKHEAD #7 ABOVE [illegible] - STENCIL	FLOAT LIGHT
FLARE STORAGE	ON PORT AND STARBOARD SIDE BETWEEN BULKHEAD #7 AND FLARE CASE, NEAR STRAPS - STENCIL	FLARES
FORWARD SIDE BULKHEAD #7	INSTRUCTIONS TO CONFORM WITH [illegible]7644	
DOOR LOCK	ON DOOR #7 BELOW HANDLE WITH [illegible]	LOCK
[illegible]	ON PORT SIDE - STATION 7.[illegible] TO [illegible]	[illegible]
[illegible]	[illegible]	

MARKING & STENCILING [illegible] EXCEPT AS [illegible] 28E5970

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	NACELLE	MARKING
OIL TANK ASSEMBLY	STENCIL TO CONFORM WITH 28-[illegible] (SEE NOTE ON DWG. AT D-14) AND 28-0-2018	
DOORS	TO CONFORM WITH 28E0006	
OIL DRAINS, HEATERS AND DE-ICER	TO CONFORM WITH 28[illegible]00, 28[illegible]016 AND 28-0-4001	
STARTER PULL RELEASE AND STARTER CRANK	STENCIL TO CONFORM WITH 28[illegible]000	
ON LOWER OUTBOARD DOOR ON R.H. NACELLE	(DOOR THAT OPENS TO HYD. TEST CONNECTIONS) STENCIL ON INSIDE DOOR TO BE READ WHEN DOOR IS OPEN	"WHEN OPERATING HY[illegible] SYS. FROM TEST STAND USE 28P6696 FITTINGS (IN SPECIAL TOOL KIT) BETWEEN TEST CONNECTIONS OUTLET & HOSE."
ACTUATOR	TO CONFORM WITH 28[illegible]000	
[illegible]	[illegible]	
[illegible]	[illegible]	

FBY-5A

[illegible]

MARKING & STENCILING
[illegible]
[illegible]
EXCEPT AS NOTED [illegible]

282551
Sheet 21 of 29
FBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	WORD	MARKING
AILERON	STENCIL [illegible] FABRIC SURFACE AS PER SPEC. [illegible]	
[illegible]	[illegible]	
GENERAL	[illegible]	
[illegible]	STENCIL [illegible] FABRIC SURFACE AS PER SPEC. [illegible]	
FIN	[illegible]	
STABILIZER	[illegible]	
ELEVATOR	STENCIL [illegible] FABRIC SURFACE AS PER SPEC. [illegible]	
FIN	[illegible]	
[illegible]	[illegible]	

PBY-5A
C-30a(a)-1.62

MARKING & STENCILING
ALL INSIGNIA & MARKINGS TO CONFORM WITH SPEC. SN-[illegible]

EXCEPT AS OTHERWISE [illegible] IN [illegible]

ALL LETTERS TO BE 1/2" HIGH & PAINTED FLAT BLACK AS [illegible]

TITLE	LOCATION	MARKING
ANCHOR LIGHT SWITCH	TO CONFORM WITH [illegible]	
SPOTLIGHT MOUNTING	ON TOP SURFACE OF [illegible] WINDSHIELD, ON LEFT HAND SIDE [illegible] PANEL, AT THREE MOUNTING POINTS, STENCIL	[illegible]
GENERAL	OTHER MARKINGS [illegible] TO CONFORM WITH [illegible]	
FUEL UNIT	[illegible] REMOVABLE PANEL, STENCIL	FUEL UNIT
MAIN FUEL TANK STRAINER	ON THE SIDES OF SUPERSTRUCTURE FAIRING, AFT OF [illegible] REMOVABLE PANEL, STENCIL	MAIN FUEL TANK STRAINER
FLOAT STRUT	PAINT BLACK STRIPE AT FORWARD EDGE OF THE [illegible] FLOAT STRUT SO THE STRIPE WILL LINE UP WITH THE DIAGONAL STRUT WHEN SETTING IN THE [illegible] SEAT	
[illegible] TANK [illegible]	DIRECTLY AFT OF THE [illegible]	[illegible]

GENERAL [illegible]

[illegible] MARKED [illegible]

TITLE	LOCATION	MARKING
FIRE EXTINGUISHERS	ALL HAND FIRE EXTINGUISHERS (PORTABLE, HAND & PRESSURE) ARE TO HAVE STENCILED IN BLACK LETTERS OF APPROPRIATE SIZE (1/4" OR 1/2") ON THEIR SIDES, THE WEIGHT	

MARKING & STENCILING
ALL INSIGNIA & MARKINGS TO CONFORM WITH SPEC. [illegible]

EXCEPT AS NOTED OTHERWISE [illegible]

ALL LETTERS TO BE 1/4" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	GENERAL NOTES - INTERIOR	MARKING
VACUUM LINES	A. GATE ENGINE: IN ADDITION TO THE COLOR MARKING LINES SHALL BE MARKED PORT OR STB'D IN EACH COMPARTMENT, AND AT THE JUNCTION OF CENTER SECTION AND SUPERSTRUCTURE	
ENGINE COVERS AND COCKPIT COVER	IN ADDITION TO PART NO. STENCIL ON EACH COVER ENGINE COVERS SHALL ALSO BE MARKED PORT OR STB'D	PBY-5A [illegible]
LIFE JACKET AND TOILET BAG STORAGE BAG	TO CONFORM WITH [illegible]	
[illegible] WINDBREAKER	STENCIL [illegible] PANEL 1/4" HIGH BLACK LETTERS WHERE [illegible] CLIPS ARE ATTACHED TO SHIP STRUCTURE	[illegible] WINDBREAKER

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

LOAD ANALYSIS CHART

ZM-28-025

MODEL PBY-5 CONTRACT # [illegible] SHIPS # [illegible] CONTRACTOR FURNISHED EQUIPMENT

ITEM NO.	ITEM	LOAD PER UNIT IN AMPS	TOTAL NO. OF UNITS	UNITS OPERATING SIMULTANEOUSLY	SEC'S PER OPERATION	OPERATIONS PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS	ITEM NO
1	OIL QUANTITY GAUGE INDICATOR	0.5	1	1	10	4	SK-EA-31	[illegible] CORP, [illegible]			MOM.	0.5	MOM	0.5	1
2	HOIST MOTOR - FLOATS (FOR	85.0	1	1	MOM.		BC-21M	GEN. ELEC. CO., SCHENECTADY, N.Y.							2
	TAKEOFF & LANDING ONLY)	40.0			14								MOM.	40.0	
3	MAGNETIC SW. - LANDING LIGHTS	5.0	2	2	600		C71535AA	STRUTHERS DUNN INC., PHILA., PA.					MOM.	10.0	3
4	LANDING LIGHTS	18.0	2	2	600		500 WATT	G.E. CO., WEST LYNN, MASS.					MOM	36.0	4
5	LIGHTS - RECOGNITION	1.4	4	1 TO 4	MOM.	30	RP-11	GRIMES MFG. CO., URBANA, OHIO			MOM	5.6	MOM.	5.6	5
6	LAMP BULB - PILOTS PANEL LT	0.17	1	1	C	C	3CP MAZDA # 30[illegible]	G.E. CO., CLEVELAND, OHIO		0.17		0.17		0.17	6
7	LAMP BULB - RADIO TABLE	0.17	3	3	C	C	3CP MAZDA # 301	G.E. CO., CLEVELAND, OHIO		0.51		0.51		0.51	7
8	LAMP BULB - IND. - FLOAT - NOSE [illegible]	0.17	1	1	10	1	3CP MAZDA # 30[illegible]	G.E. CO., CLEVELAND, OHIO					MOM.	0.17	8
9	LAMP BULB - IND. - FLOAT PILOTS	0.17	1	1	10	1	3CP MAZDA # 301	G.E. CO., CLEVELAND, OHIO					MOM.	0.17	9
10	LAMP BULB - PROJECTOR LIGHT	0.3	6	1 TO 6	C	C	6CP MAZDA # 30[illegible]	G.E. CO., CLEVELAND, OHIO		1.8		1.8		1.8	10
11	LAMP BULB - IND. - BOMBERS - AUTO	0.3	ALTERNATE	1	C	C	6CP MAZDA # 3[illegible]	G.E. CO., CLEVELAND, OHIO				0.3			11
12	LAMP BULB - IND. - BOMBERS - MAN.	0.3	OPERATION				6CP MAZDA # 30[illegible]	G.E. CO., CLEVELAND, OHIO							12
13	LAMP BULB - SIGNAL - PILOTS	0.25	OPERATED IN	[illegible]	30	15	[illegible] 12-[illegible]-DC	G.E. CO., CLEVELAND, OHIO		0.5		0.5		0.5	13
14	LAMP BULB - SIGNAL - PILOTS		SERIES												14
15	LAMP BULB NAVIGATORS CHART	1.05	2	2	C	C	32CP MAZDA # 30[illegible]	G.E. CO., CLEVELAND, OHIO		2.1		2.1		2.1	15
16	LAMP BULB - AUX. GEN. IND.	0.17	1	1	C	C	[illegible]	G.E. CO., CLEVELAND, OHIO		0.17		0.17		0.17	16
17	INVERTER - FLUORESCENT LT.	3.5	1	1	C	C	3661	ELECTRONIC LABORATORIES				3.5		3.5	17
18	KLAXON HORN (BOAT WARNING)	8.0	1	1	5	180	[illegible] MFG # DSC[illegible]	[illegible] MFG. CO., [illegible]	MOM	8.0	MOM.	8.0	MOM.	8.0	18
19	BOMB RELEASE SIGNAL OUTLET	0.1	2	2	MOM	4		C.V.A.C., SAN DIEGO, CALIF.			MOM.	0.2			19
*20	STOVE - COOKING	30.3	2	2	C	C	28ER101-832	C.V.A.C., SAN DIEGO, CALIF.							20
21	PORTABLE BILGE PUMP	12.0	1	1	C	C	1133-MB	LEECE - NEVILLE		12.0					21
22	ANTI-ICER MOTOR	3.0	1	1	C	C	[illegible]-330-4	ECLIPSE AVIATION CORP., [illegible]				3.0		3.0	22
23	TAIL ANTI-ICER GLOW PLUG	11.0	1	1	180	[illegible]		STEWART WARNER, [illegible]			MOM	11.0	MOM	11.0	23
24	SOLENOID [illegible]	1.2	1	1	C	C	[illegible] 75R	[illegible]							24
25	SOLENOID SWITCH - STARTER	0.3	2	1	MOM.	1	C4B 1535A-24V	STRUTHERS DUNN INC., PHILA., PA.	MOM	0.3					25
26	SOLENOID [illegible]	[illegible]	2	1	5	1	[illegible]	[illegible]	[illegible]	[illegible]					26
27	[illegible]	.05	1		C	C	[illegible]-10	[illegible]				0.05		0.05	27
[illegible]	[illegible] - [illegible] ANTI-ICER	[illegible]	2	[illegible]	MOM								MOM	[illegible]	[illegible]

	ANCHOR AMPS	BATTLE AMPS	CRUISING AMPS
TOTAL AMPS	26.50	30.40	125.29
LESS MOMENTARY	9.33	16.30	112.49
TOTAL CONTINUOUS	17.23	13.10	12.80

* INDICATES A.C. LOAD

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

MODEL PBY-5 CONTRACT 91826 #DIEDN GOVERNMENT FURNISHED EQUIPMENT

ITEM NO.	ITEM	LOAD PER UNIT IN AMPS.	TOTAL NO. OF UNITS	UNITS OPERATING SIMULTANEOUSLY	SECS. PER OPERATION	[illegible] PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS.	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS.	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS.	ITEM NO.
														0.17	1
1	LAMP BULB - RUNNING LTS - TAIL	0.17	1	1	C	C	S.C.P. MAZDA #301	G.E. CO, CLEVELAND, OHIO							
2	LAMP BULB - ANCHOR LIGHTS	0.17	2	2	C	C	S.C.P. MAZDA #301	G.E. CO, CLEVELAND, OHIO		0.34					2
3	LAMP BULB - SECTION LIGHT	0.17	1	1	C	C	S.C.P. MAZDA #301	G.E. CO, CLEVELAND, OHIO				0.17		0.17	3
4	LAMP BULB - FORMATION LIGHT	0.17	2	2	C	C	S.C.P. MAZDA #301	G.E. CO, CLEVELAND, OHIO				0.34		0.34	4
5	LAMP BULB - NAV'S COMPT LIGHT	0.3	1	1	C	C	S.C.P. MAZDA #303	G.E. CO, CLEVELAND, OHIO		0.3		0.3		0.3	5
6	LAMP BULB - RUNNING LTS WING	0.4	2	2	C	C	S.C.P. MAZDA #307	G.E. CO, CLEVELAND, OHIO						0.8	6
7	LAMP BULB - COMPARTMENT LTS.	1.95	6	6	C	C	S.C.P. MAZDA #306	G.E. CO, CLEVELAND, OHIO		11.7				11.7	7
8	SOLENOID - BOMB RACK MARK 51						BUR. #358750								8
	(a) RELEASE SOLENOID	4.8	8	1 TO 8	MOM.						MOM.	38.4			
	(b) NOSE ARMING SOLENOID	1.2	8	1 TO 8	C	C						9.6			
	(c) TAIL ARMING SOLENOID	1.2	8	1 TO 8	C	C						9.6			9
9	SOLENOID - BOMB RACK MARK 42										MOM.	66.0			
	(a) RELEASE SOLENOID	5.5	12	1 TO 12	MOM.							10.4			
	(b) ARMING SOLENOID	2.6	4	1 TO 4	C	C									
							SQ 104	EDISON - SPLITDORF		1.5		1.5		1.5	10
10	BULB - AIR THERMOMETER	.5	3				SQ 104	EDISON - SPLITDORF		1.0		1.0		1.0	11
11	BULB - OIL THERMOMETER	.5	2				[illegible]			1.5		1.5		1.5	12
12	INDICATOR - AIR THERMOM'TR	.5	3				[illegible] - WESTON #[illegible]			1.0		1.0		1.0	13
13	INDICATOR - OIL THERMOM'TR	.5	2							3.0		3.0		3.0	14
14	INVERTER - REMOTE IND. COMPASS	3.0	1	1	C	C	INVERTER 12117-0								
15	MOTOR - FEATHERING PUMP	80.0	2	2	30		[illegible] EB-BM	[illegible] CO, CLEVELAND, OHIO	MOM.	80.0	MOM.	80.0	MOM.	80.0	15
16	PILOT DIRECTOR MARK XI		2												16
										5.0		5.0		5.0	17
17	PITOT TUBE (HEATED)	5.0	1	1	C	C	NAF 03000								
18	RELAY - FEATHERING CONT. (PUMP MOTOR)	2.5	2	2	30				MOM.	2.5	MOM.	2.5	MOM.	2.5	18
									MOM.	39.0					19
19	SOLENOID - MESHING (WITH STARTER)	34.0	2	1	15	1			[illegible]	2.5					20
20	[illegible]	[illegible]	[illegible]	1	15	1	[illegible]	[illegible]	[illegible]	9.5					21
21	STARTER	80.0	2	1	MOM.		[illegible]		MOM.	1.8					22
22	BOOSTER COIL	1.8	[illegible]	1	15	1	[illegible]			8.6		8.6		8.6	23
23	MOTOR - WINDSHIELD WIPER	8.6	1	1	C	C	PT1326-D	AEROTORQUE CORP, CLEVELAND, O.				12.0			24
24	[illegible]				[illegible]		[illegible]	[illegible]							25
25	TORPEDO TRAINING CAMERA	5.0	1	1	C		315 1067					8.0			26
26	[illegible] GUN CAMERA	2.0	4	1 TO 4	C					[illegible]		[illegible]		[illegible]	27
27	TELEGRAPH TELEPHONE RECEIVING	5.6	1	1	C	C	MODEL [illegible]	[illegible]				3.0		3.0	28
28	INTERPHONE EQUIPMENT	3.0	1	1	C	C	MODEL AL-24-C	TELEPHONICS CORP, N.Y., N.Y.				9.0		9.0	29
29	A. R.U. HEATER UNIT	9.0	1	1	C	C		LAWRENCE ENG. CO.				3.0		3.0	30
30	RADIO TRANSMITTING EQUIP.	3.0	1	1	C	C	MODEL ATB	R.C.A.				2.4		2.4	31
31	RADIO RECEIVING EQUIP.	2.4	1	1	C	C	MODEL ARB	R.C.A.				1.14		1.14	32
32	RADIO EQUIPMENT	1.14	1	1	C	C	MODEL ZB	ZENITH RADIO CORPN.						2.0	33
33	RADIO INSTRUMENT LANDING EQUIP.	2.0	1	1			MODEL ZH	AIR TRACK MFG. CO.						.36	34
34	RADIO DIRECTION FINDING EQUIP.	.36	1	1			MODEL DW	BENDIX RADIO CORPN.						.38	35
35	FREQUENCY MEASURING EQUIP.	.38	1	1	C	C	MODEL LM-10	BENDIX RADIO CORPN.		.38					

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

ZM-2B-025

LOAD ANALYSIS CHART

MODEL PB2S CONTRACT #91891 SHIPS 9100N GOVERNMENT FURNISHED EQUIPMENT

ITEM NO	ITEM	LOAD PER UNIT IN AMPS	TOTAL NO OF UNITS	UNITS OPERATING SIMULTANEOUSLY	SEC. PER OPERATION	OPERATIONS PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS	ITEM NO.
36	RADIO TRANSMITTING EQUIP.						MODEL GO-9	WESTINGHOUSE ELEC. & MFG. CO., BALTIMORE, MD.		10.5		10.5		10.5	36
	(a) CW	2.5 *26.6	1	1								2.5		2.5	
	(b) MCW	2.5 *26.2	1	1											
37	IFF EQUIPMENT	3.0	1	1	C	C	MODEL ABD					3.0		3.0	37
38	RADAR EQUIPMENT	3.0 *4.16	1	1	C	C	MODEL ASV					3.0		3.0	38

* INDICATES D.C. LOAD

G.O. TRANSMITTER	6.6	6.6	6.6
RADAR EQUIP.	4.16	4.16	4.16
COOKING STOVE	16.6	16.6	16.6
TOTAL AC LOAD	27.36		27.36 A
TOTAL A.C. POWER @ 120V			
NEA-3 ENGINE GEN. (2)		10.0	20.0
AUX. GEN. NEA-3		10.0	10.0
TOTAL AC POWER @ 120V			[illegible] A
DC POWER @ [illegible]			
NEA-3 ENGINE GEN. (2)		60.0	120.0
AUX. GEN. [illegible]		60.0	60.0
TOTAL D.C. POWER [illegible]			[illegible]

	ANCHOR AMPS	BATTLE AMPS	CRUISING AMPS
TOTAL AMPS	251.22	317.05	163.46
LESS MOMENTARY	210.80	186.90	82.50
TOTAL CONTINUOUS	40.42	130.65	80.06
[illegible]			
TOTAL AMPS	36.56	39.40	186.24
LESS MOMENTARY	0.27	26.30	112.99
TOTAL CONTINUOUS	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible] 28V. D.C.

COMPUTED BY E. G. Wright 4/11/43
CHECKED BY [illegible]
APPROVED BY F. R. Brady [illegible]

LOAD ANALYSIS CHART

ZM-28-026

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

MODEL PBY-5A CONTRACT NOa-5464 CONTRACTOR FURNISHED EQUIPMENT

ITEM NO.	ITEM	LOAD PER UNIT IN AMPS.	TOTAL NO. OF UNITS	UNITS [illegible] SIMUL-TANEOUSLY	SECS. PER OPERA-TION	[illegible] PER HOUR	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS.	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS.	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS.	ITEM NO.
1	OIL QUANTITY GAGE INDICATOR	0.5	1	1	10	4	SK-EA-51	LIQUIDOMETER CORP. L.I. CITY, N.Y.			MOM.	0.5	MOM.	0.5	1
2	HOIST MOTOR-FLOATS (FOR	85.0	1	1	MOM.		BC-BIM	G.E. CO., SCHENECTADY, N.Y.							2
	TAKEOFF & LANDING ONLY)	40.0			14								MOM.	40.0	
3	MAGNETIC SW-LANDING LIGHTS	5.0	2	2	600		CXL55 AA	STRUTHERS DUNN INC, PHILA, PA					MOM.	10.0	3
4	LANDING LIGHTS	18.0	2	2	600		500 WATT	G.E. CO., WEST LYNN, MASS					MOM.	36.0	4
5	LIGHTS - RECOGNITION	1.4	4	1 to 4	MOM.	30	K.P-11	GRIMES MFG. CO., URBANA, OHIO			MOM.	5.6	MOM.	5.6	5
6	LAMP BULB-PILOTS PANEL LT	0.17	1	1	C	C	[illegible]	G.E. CO., CLEVELAND, OHIO		0.17		0.17		0.17	6
7	LAMP BULB-RADIO TABLE	0.17	3	3	C	C	[illegible]	G.E. CO., CLEVELAND, OHIO		0.51		0.51		0.51	7
8	LAMP BULB-IND-FLOAT-MECHS	0.17	1	1	10	1	[illegible]	G.E. CO., CLEVELAND, OHIO					MOM.	0.17	8
9	LAMP BULB-IND-FLOAT-PILOTS	0.17	1	1	10	1	[illegible]	G.E. CO., CLEVELAND, OHIO					MOM.	0.17	9
10	LAMP BULB-PROJECTOR LIGHT	0.3	6	1 to 6	C	C	[illegible]	G.E. CO., CLEVELAND, OHIO		1.8		1.8		1.8	10
11	LAMP BULB-IND-BOMBERS-[illegible]	0.3	[illegible]	1	C	C	[illegible]	G.E. CO., CLEVELAND, OHIO				0.3			11
12	LAMP BULB-[illegible]-BOMBERS-[illegible]	0.3	[illegible]				[illegible]	G.E. CO., CLEVELAND, OHIO							12
13	LAMP BULB-SIGNAL-PILOTS	0.25	[illegible]	1 or 2	30	15	[illegible] 12-16V-DC	G.E. CO., CLEVELAND, OHIO		0.5		0.5		0.5	13
14	LAMP BULB-SIGNAL-MECHS		[illegible]				[illegible] 12-16V-DC	G.E. CO., CLEVELAND, OHIO							14
15	LAMP BULB-NAVIGATORS CHART	1.05	2	2	C	C	[illegible]	G.E. CO., CLEVELAND, OHIO		2.1		2.1		2.1	15
16	LAMP BULB-WARNING-[illegible]	.20	3	1 or 2			MAZDA 313	G.E. CO., CLEVELAND, OHIO						.40	16
17	INVERTER-FLUORESCENT LIGHT	3.5	1	1	C	C	5666	ELECTRONICS LABORATORIES				3.5		3.5	17
18	KLAXON HORN FOOL WARNING	8.0	1	1	5	180	337 MR [illegible]	[illegible]	MOM.	8.0	MOM.	8.0	MOM.	8.0	18
19	BOMB RELEASE SIGNAL CIRCUIT	0.1	2	2	MOM.	4		C.V.A.C., SAN DIEGO, CALIF			MOM.	0.2			19
20	STOVE - COOKING	*9.1	2	2	C	C	[illegible]	C.V.A.C., SAN DIEGO, CALIF							20
21	PORTABLE BILGE PUMP	12.0	1	1	C	C	[illegible] AB	LEECE-NEVILLE		12.0					21
22	ANTI-ICER MOTOR	3.0	1	1	C	C	[illegible]	ECLIPSE PIONEER CO., BENDIX, N.J.				3.0		3.0	22
23	TAIL ANTI-ICER GLOW PLUG	11.0	1	1	180		471750	STEWART WARNER CORP.			MOM.	11.0	MOM.	11.0	23
24	[illegible] - TAIL ANTI-ICER	7.0	1	1	C	C	[illegible]	[illegible], INC.				[illegible]		[illegible]	24
25	ACTUATOR-WING ANTI-ICER	.5	2	1 or 2	MOM.		[illegible]	[illegible]			MOM.	1.0	MOM.	1.0	25
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	MOM.	[illegible]					26
27	[illegible] VALVE [illegible]	1.03	2	[illegible]	[illegible]	1	MOTOR	[illegible]	MOM.	[illegible]					27
28	[illegible] FUEL PUMP	[illegible]	1	1	C	[illegible]	[illegible]	[illegible]				[illegible]		[illegible]	28

* INDICATES A.C. LOAD

	ANCHOR AMPS.	BATTLE AMPS.	CRUISING AMPS.
TOTAL AMPS	26.41	39.[illegible]	12[illegible]
LESS MOMENTARY	9.33	26.[illegible]	112.[illegible]
TOTAL CONTINUOUS	17.08	12.85	13.03

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

LOAD ANALYSIS CHART

MODEL PBY-5A CONTRACT NO. [illegible]8464 GOVERNMENT FURNISHED EQUIPMENT

* DENOTES A.C. LOAD

ITEM NO.	ITEM	LOAD PER UNIT IN AMPS	TOTAL NO. OF UNITS	UNITS OPERATING SIMULTANEOUSLY	SECS. PER OPERATION	OPERATIONS PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS	ITEM NO.
1	LAMP BULB - RUNNING LIGHTS - TAIL	0.17	1	1	C	C	S.C.R. MAZDA #301	G.E.CO., CLEVELAND, OHIO						0.17	1
2	LAMP BULB - ANCHOR LIGHTS	0.17	2	2	C	C	S.C.R. MAZDA #301	G.E.CO., CLEVELAND, OHIO		0.34					2
3	LAMP BULB - SECTION LIGHT	0.17	1	1	C	C	S.C.R. MAZDA #301	G.E. CO., CLEVELAND, OHIO				0.17		0.17	3
4	LAMP BULB - FORMATION LIGHT	0.17	2	2	C	C	S.C.R. MAZDA #301	G.E. CO., CLEVELAND, OHIO				0.34		0.34	4
5	LAMP BULB - MECHS. COMPT. LT.	0.3	1	1	C	C	S.C.R. MAZDA #301	G.E. CO., CLEVELAND, OHIO		0.3		0.3		0.3	5
6	LAMP BULB - RUNNING LTS. [illegible]	0.4	2	2	C	C	S.C.R. MAZDA #307	G.E. CO., CLEVELAND, OHIO						0.8	6
7	LAMP BULB - COMPARTMENT LTS.	1.95	6	6	C	C	S.C.R. MAZDA #306	G.E. CO., CLEVELAND, OHIO		11.7				11.7	7
8	SOLENOID - BOMBRACK - MK. 51						AN #33078								8
	(a) RELEASE SOLENOID	4.8	8	1 or 8	NOM						NOM.	38.4			
	(b) NOSE ARMING SOLENOID	1.2	8	1 TO 8	C	C						[illegible].6			
	(c) TAIL ARMING SOLENOID	1.2	8	1 TO 8	C	C						9.6			9
9	SOLENOID - BOMBRACK MK. 42										NOM.	66.0			
	(a) RELEASE SOLENOID	5.5	12	1 TO 12	NOM.							10.4			
	(b) ARMING SOLENOID	2.6	4	1 TO 4	C	C									
10	BULB - AIR THERMOMETER	.5	3				SQ104	EDISON - SPLITDORF		1.5		1.5		1.5	10
11	BULB - OIL THERMOMETER	.5	2				SQ104	EDISON - SPLITDORF		1.0		1.0		1.0	11
12	INDICATOR - AIR THERMOMETER	.5	3				159 - WESTON # [illegible]			1.5		1.5		1.5	12
13	INDICATOR - OIL THERMOMETER	.5	2				155 - WESTON # [illegible]			1.0		1.0		1.0	13
14	INVERTER - REMOTE IND. COMPASS	3.0	1	1	C	C	INVERTER 12117[illegible]			3.0		3.0		3.0	14
15	MOTOR - FEATHERING PUMP	80.0	2	2	30		16-BR-200-EH	[illegible]	NOM.	80.0	NOM.	80.0	NOM.	80.0	15
16	PILOT DIRECTOR - MARK XX		2												16
17	PITOT TUBE (HEATED)		1	1	C	C	AN5816 E								17
18	[illegible] - FEATHERING [illegible]	2.5	2	2	30				NOM.	2.5			NOM.	2.5	18
19	SOLENOID, MESHING (WITH STARTER)	34.0	2	1	15	1			NOM.	[illegible]					19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			NOM.	3.5					20
								[illegible]	[illegible]	[illegible]					21
21	STARTER	70.0	2	1	30	1/[illegible]	JH 787		[illegible]	[illegible]					22
22	BOOSTER COIL	1.8	2	1	15	1	WITH STARTER								
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	23
[illegible]	[illegible]											[illegible]			24
[illegible]	[illegible]	11.0	2	1 to 2	C		[illegible]	BELL AIRCRAFT, BUFFALO, N.Y.				[illegible]			25
[illegible]	TORPEDO TRAINING CAMERA	5.0	1	1	C		[illegible]					8.0			26
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					3.6		[illegible]		[illegible]	27
27	TELEGRAPH TELEPHONE [illegible]	3.6	1	1	C	C	MODEL RU-10	AIRCRAFT RADIO CORP., BOONTON, N.J.				3.0		3.0	28
28	INTERPHONE EQUIPMENT	2.0	1	1	C	C	MODEL RL-30-C	TELEPHONICS CORP., N.Y., N.Y.				3.0		3.0	29
29	I.F.F. EQUIPMENT	3.0	1	1	C	C	MODEL ABD					3.0		3.0	30
30	RADAR EQUIPMENT	3.0	1	1	C	C	MODEL ASV								
		34.16													
31	FREQUENCY MEASURING EQUIP.	.38	1	1	C	C	MODEL LM-10	BENDIX RADIO CORPN.		.38				.38	31
32	RADIO DIRECTION FINDING EQUIP.	.36	1	1			MODEL DW	BENDIX RADIO CORPN.						.36	32
33	RADIO-INSTRUMENT LANDING EQUIP.	2.0	1	1			MODEL ZA	AIR TRACK MFG. CO.						2.0	33
34	RADIO EQUIPMENT	1.14	1	1	C	C	MODEL ZB	[illegible] RADIO CORPN.				1.14		1.14	34
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

LOAD ANALYSIS CHART

MODEL PBY-5A CONTRACT NO. [illegible] GOVERNMENT FURNISHED EQUIPMENT

ITEM NO.	ITEM	LOAD PER UNIT IN AMPS	TOTAL NO. OF UNITS	UNITS OPERATING SIMULTANEOUSLY	SEC'S FOR OPERATION	OPERATIONS PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS	ITEM NO.
37	RADIO TRANSMITTING EQUIP.						MODEL GO-9	WESTINGHOUSE ELEC. & MFG. CO., BALTIMORE, MD.		10.5		10.5		10.5	37
	@ CW	2.5										2.5		2.5	
		*6.6													
	@ MCW	2.5													
		*6.2													

* INDICATES A.C. LOAD

G.O. TRANSMITTER	6.6	
RADAR EQUIPMENT	4.16	
COOKING STOVE	18.2	
TOTAL A.C. LOAD	28.96	A.

A.C. POWER @ 120V		
NEA-3 ENGINE GEN. (2)	10.0	20.0
AUX. GEN. NEB-1D	6.0	6.0
TOTAL A.C. POWER @ 120V		26.0 A.

D.C. POWER @ 28.5V		
NEA-3 ENGINE GEN. (2)	[illegible]	[illegible]
AUX. GEN. NEB-1D	60.0	60.0
TOTAL D.C. POWER @ 28.5V		[illegible]

	ANCHOR CONDITION AMPS	BATTLE CONDITION AMPS	CRUISING CONDITION AMPS
TOTAL AMPS	226.23	290.55	149.46
LESS MOMENTARY	180.80	184.40	82.50
TOTAL CONTINUOUS	45.43	106.15	66.96
ADD CONTR. FURN.			
TOTAL AMPS	26.41	39.23	125.47
LESS MOMENTARY	9.33	26.30	112.44
TOTAL CONTINUOUS	17.08	12.93	13.03
TOTAL CONTINUOUS [illegible] G.F.E.	62.51	119.08	79.99

COMPUTED BY S. O. Wright 6/11/43
CHECKED BY [illegible]
APPROVED BY [illegible]

OPPOSITE HAND

DETAIL PARTS PER ASSEMBLY

AIRCRAFT CORP

SUPPORT

A 280 501

R

CONSOLIDATED AIRCRAFT CORP

PATCH - REINFORCING COWL WELL

A

28P5983

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
-0 -13	-1 -13	-2 -13	1 3/8	-52
-0 -14	-1 -14	-4 -14	1 1/8	-53

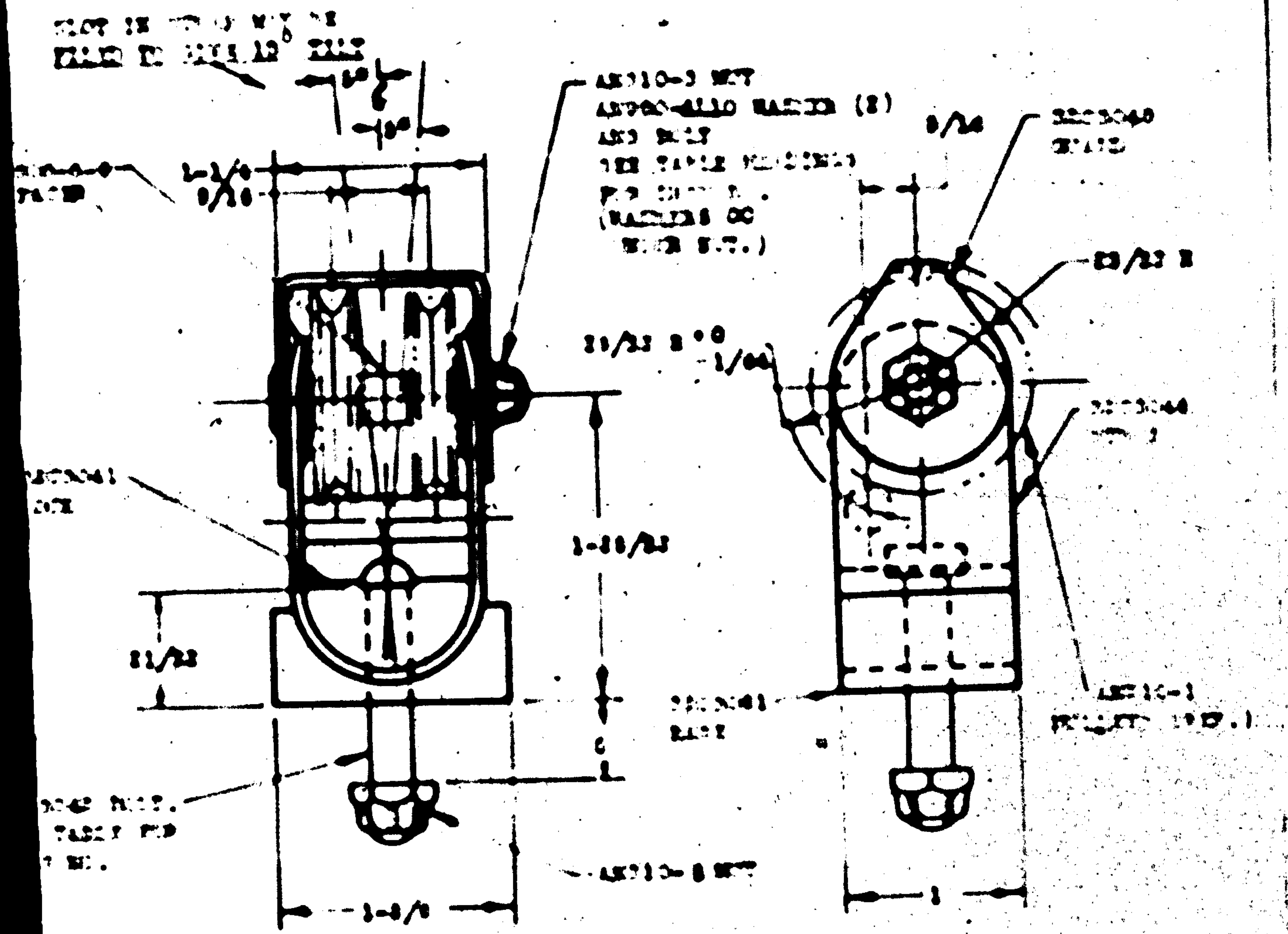
BRACKET-2½-PULLEY

Q4002

PART NUMBER

BRACKET-3½ PULLEY

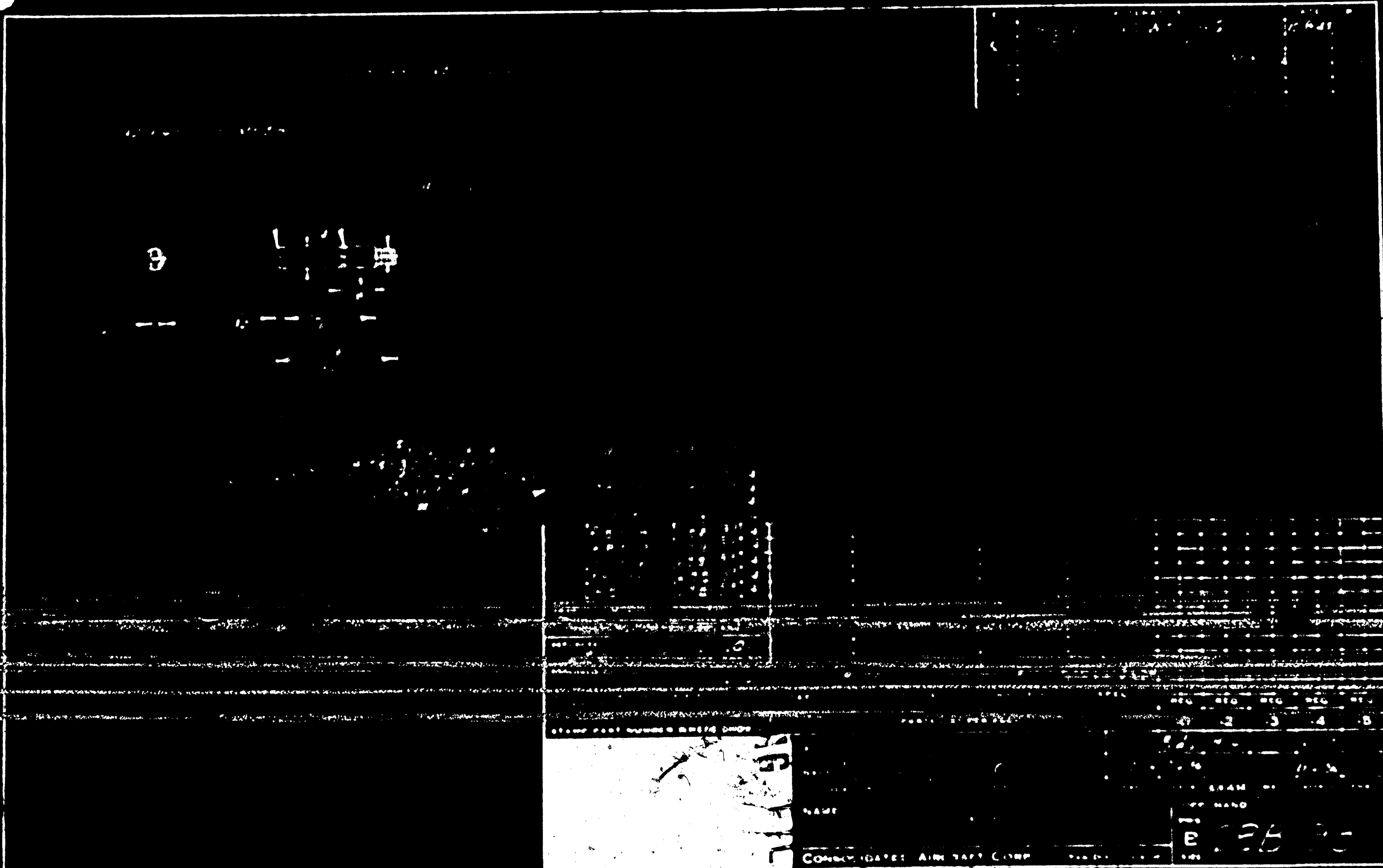
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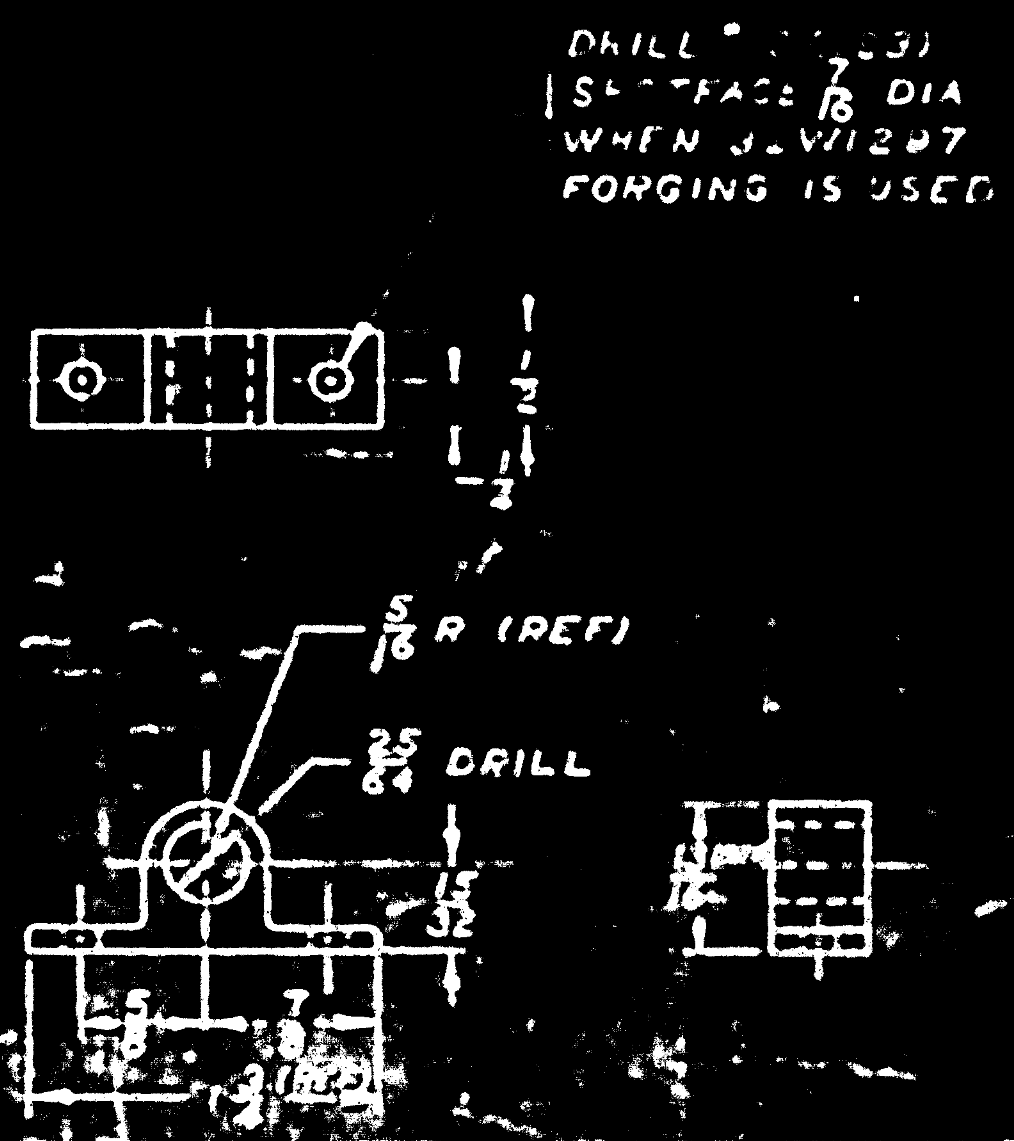


[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	-0 -9	-1 -9	[illegible]	[illegible]
	-0 -10	-1 -10	1	[illegible]
	-0 -11	-1 -11	1 1/8	[illegible]
	-0 -12	-1 -12	1 1/4	[illegible]
	-0 -13	-1 -13	1 3/8	[illegible]
	-0 -14	-1 -14	1 1/2	[illegible]

BRACKET-TWO-1½-PULLEY

94011





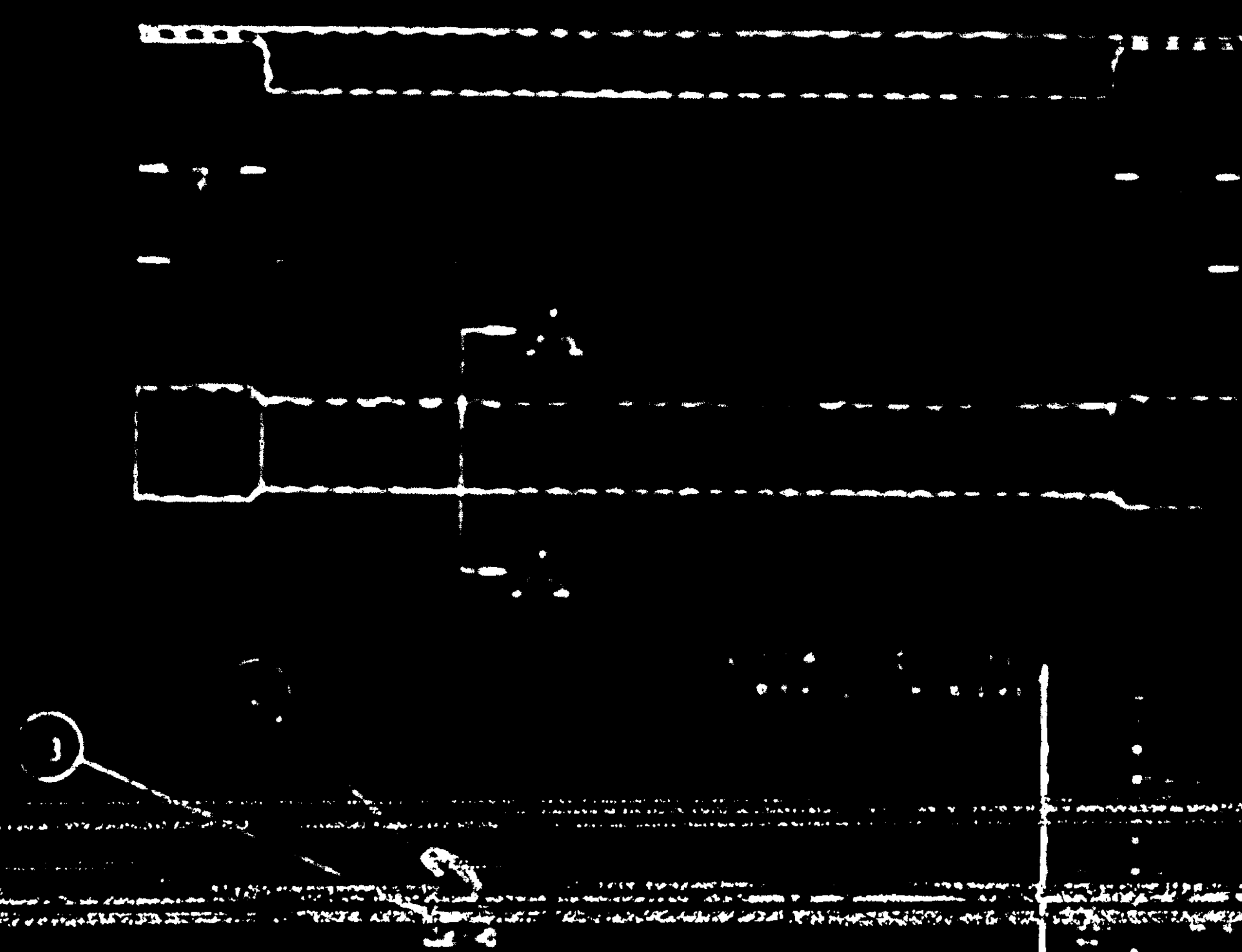
MATERIAL NOTE
MAT MAY BE:
(A) ... AL. ALLOY EXT., SPEC
QQ-A-354 COND. T, OR
(B) K13681 X 5/8 AL. ALLOY EXT., SPEC
AN-A-8 COND. T, OR
(C) FORGING 32W1297

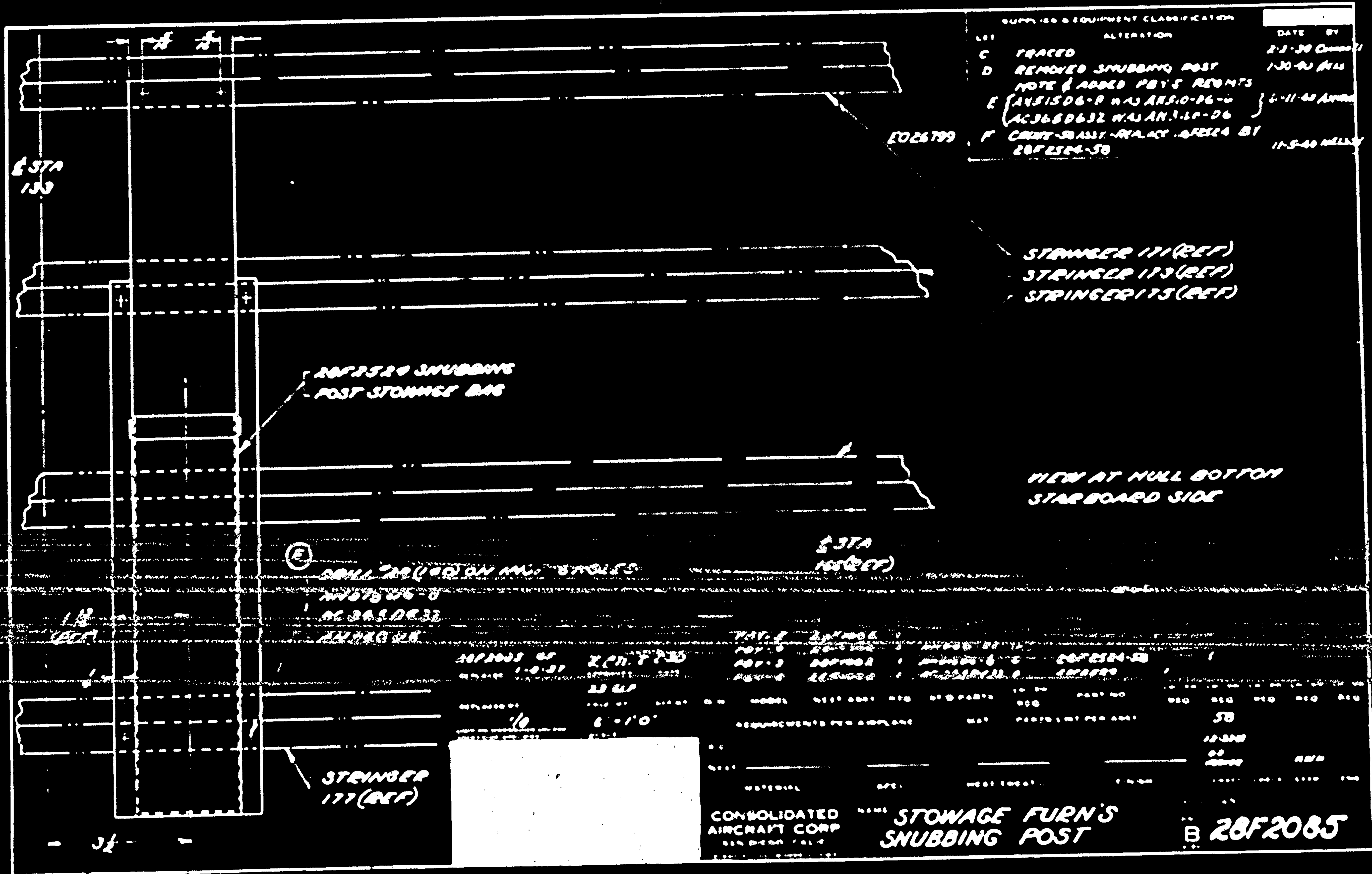
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NAME BRAC...
WATI...

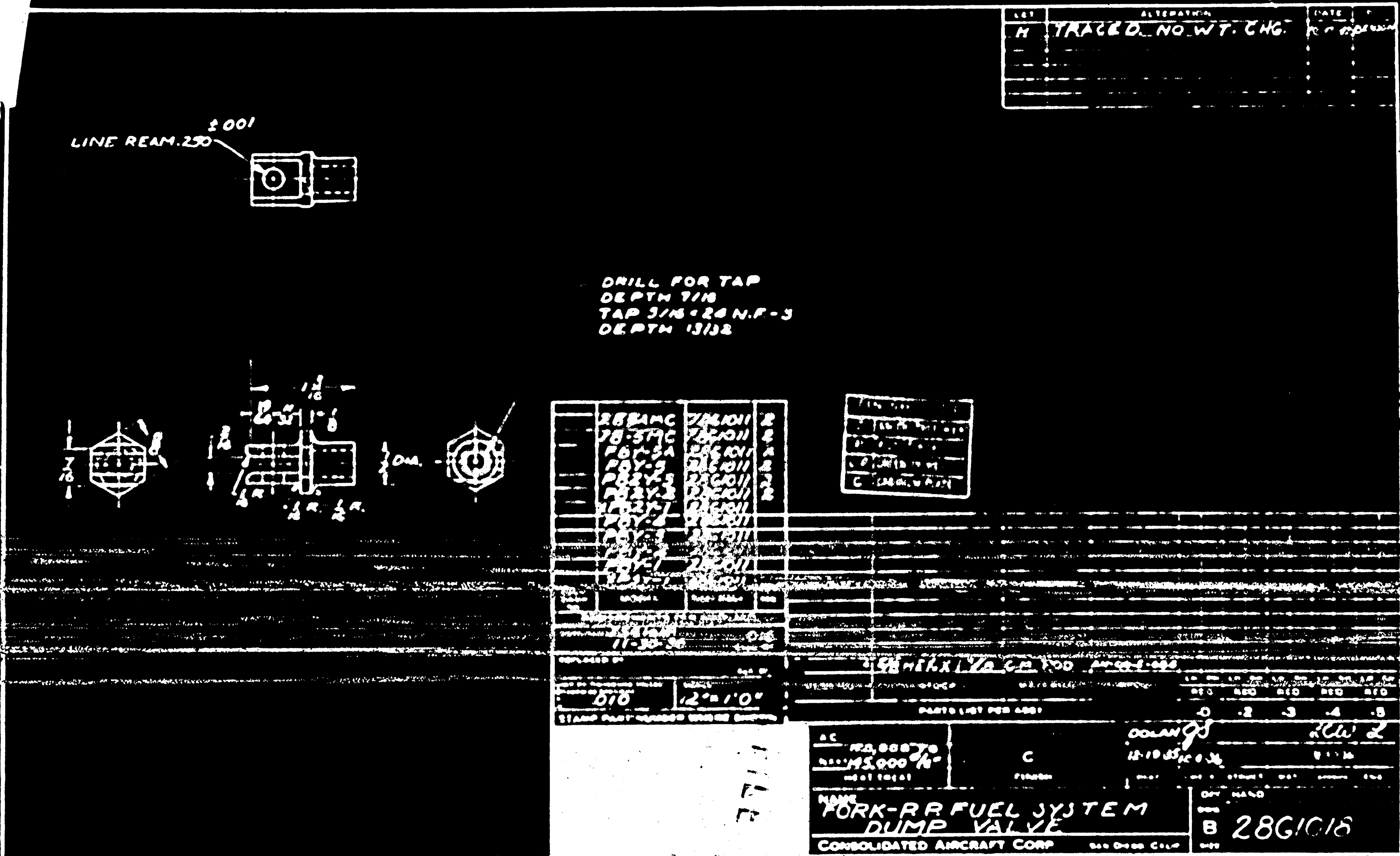
B 28-2137

CONSOLIDATED AIRCRAFT CORP

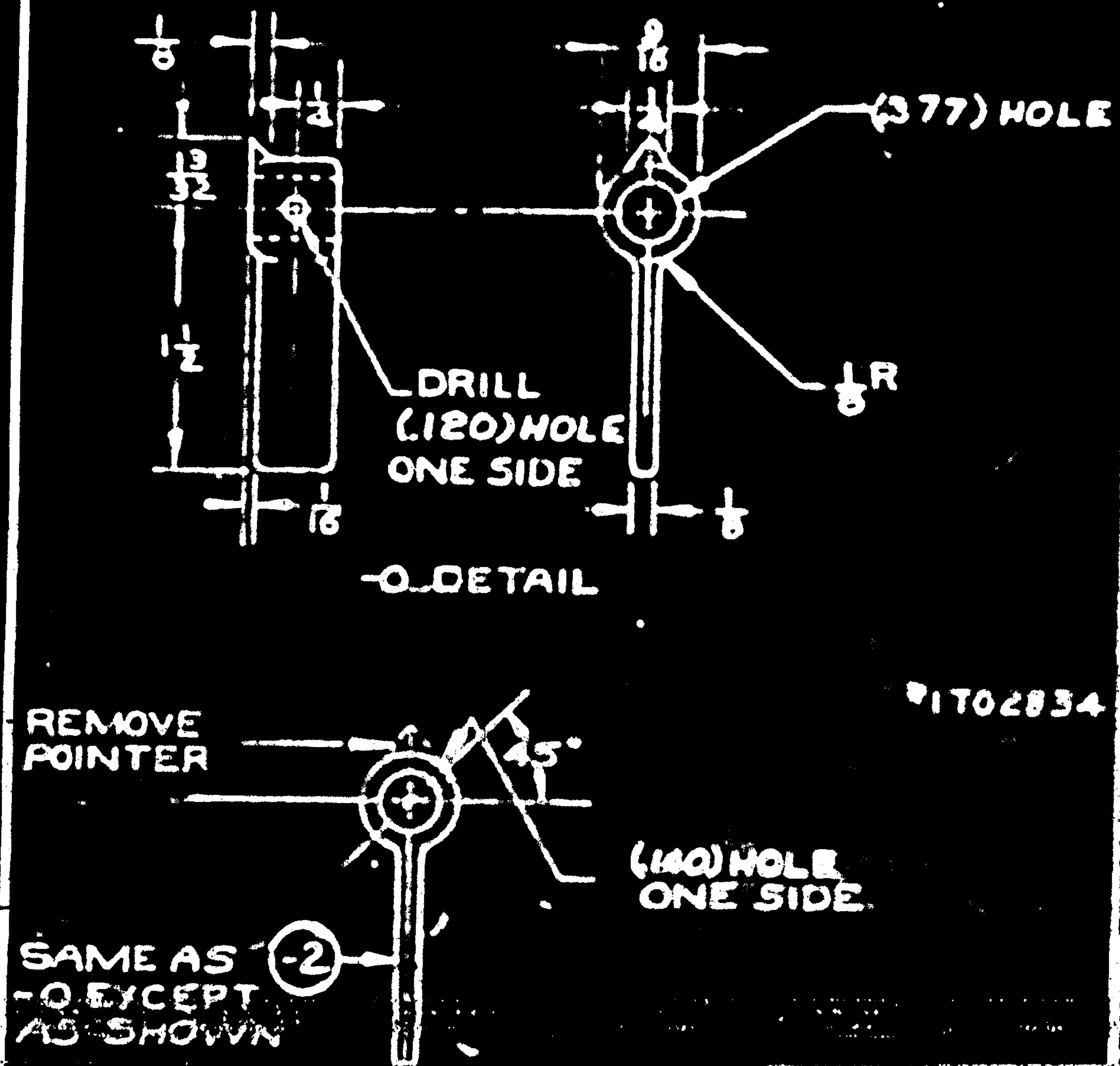




ALTERATION
DATE BY
C TRACED
D REMOVED SNUBBING POST NOTE & ADDED PDT'S REQMTS
F
EO26799
STRINGER 171 (REF)
STRINGER 173 (REF)
STRINGER 175 (REF)
VIEW AT HULL BOTTOM STARBOARD SIDE
POST STOWAGE BAG
STRINGER 177 (REF)
CONSOLIDATED AIRCRAFT CORP
STOWAGE FURN'S SNUBBING POST
B 28F2085



TRACED NO WT. CHG.
28G1018
LINE REAM .250 ±.001
DRILL FOR TAP
DEPTH 7/16
TAP 5/16-24 N.F.-3
DEPTH 13/32
FORK-R.R. FUEL SYSTEM
DUMP VALVE
CONSOLIDATED AIRCRAFT CORP
B 28G1018



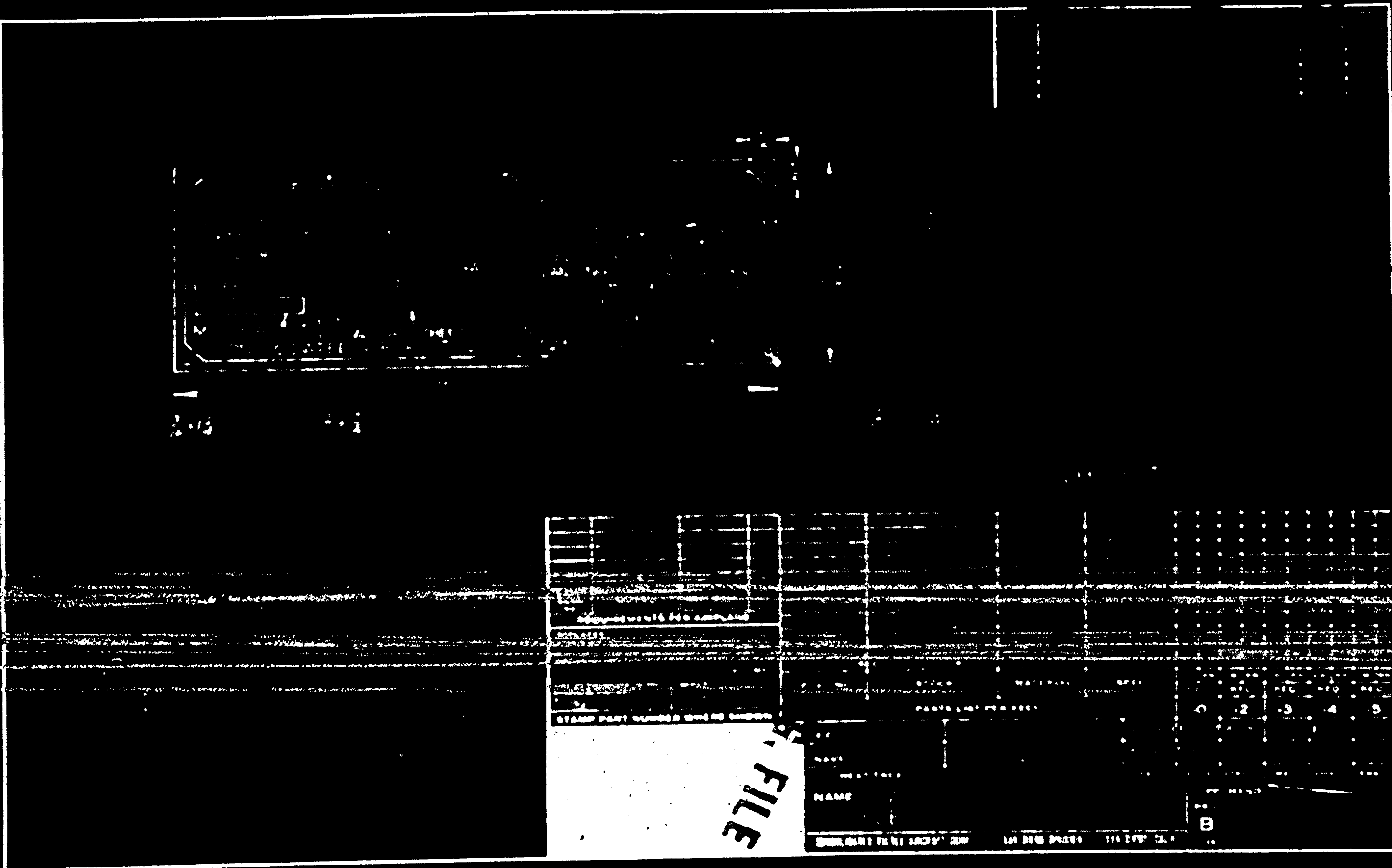
LET	ALTERATION	DATE
J	TRACED NO WT. CHG.	

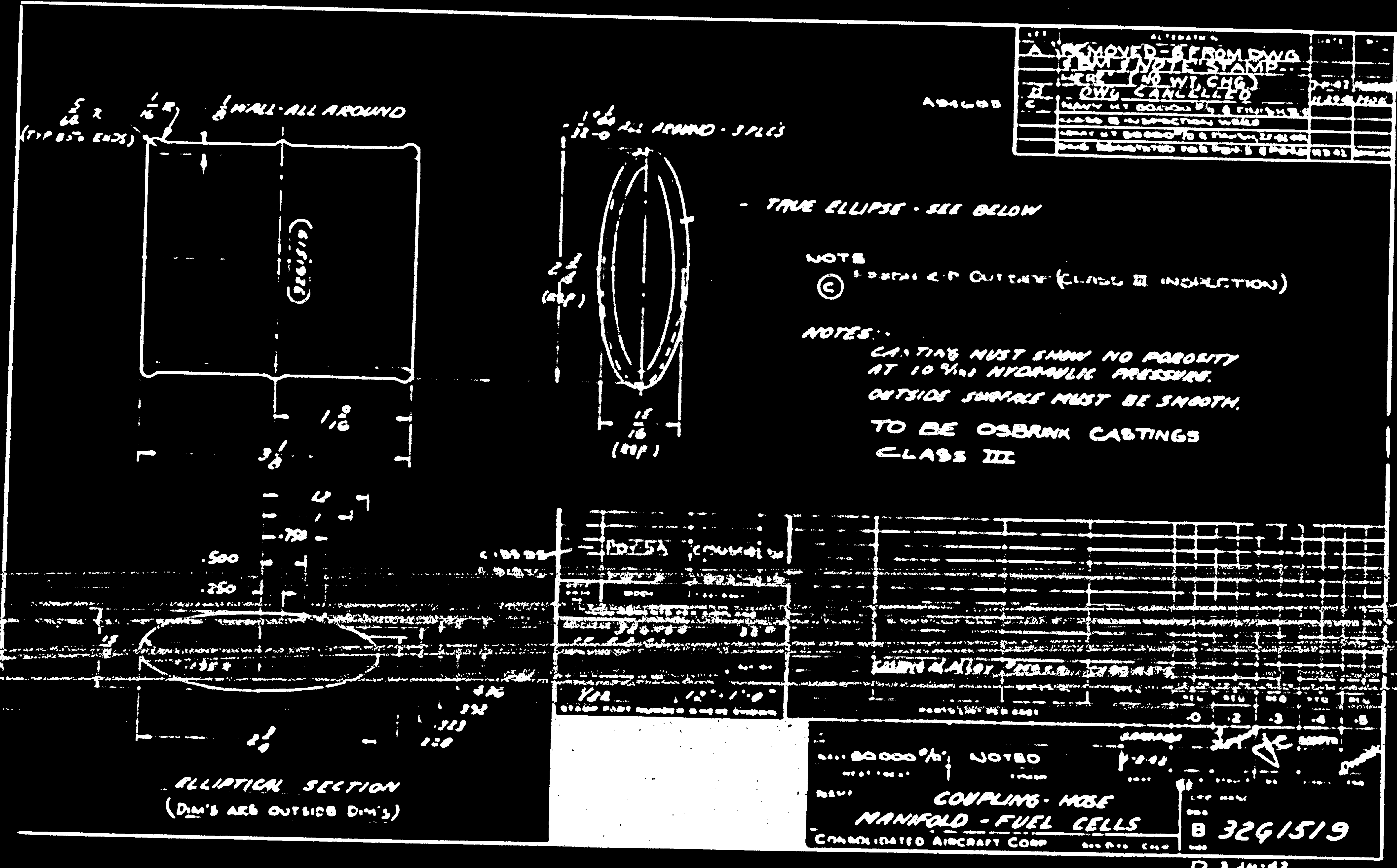
ROUGH CASTING -3 (SAME AS 5G117)
NOTE: MATERIAL FOR -3
1. AL ALL S-195-T6 SPEC AN-A-5 CL II,
32,000 PSI.
2. AL ALL #195 T4 SPEC AN-QQ-A-390 CL I
29,000 PSI.

FINISH CODE	
J	
P	
GP	
C	

AS NOTED	ZF-32-001		
AS NOTED	Z-P		

NAME HANDLE-FUEL SYSTEM-PLUG VALVE
OPP HAND NONE
B 28G1033
CONSOLIDATED AIRCRAFT CORP


FILE
NAME
B


REMOVED -B FROM DWG
DWG CANCELLED
1/8 WALL - ALL AROUND
(TYP BOTH ENDS)
TRUE ELLIPSE - SEE BELOW
(REF)
NOTE
NOTES:
CASTING MUST SHOW NO POROSITY AT 10 #/in HYDRAULIC PRESSURE.
OUTSIDE SURFACE MUST BE SMOOTH.
TO BE OSBRINK CASTINGS
CLASS III
3 1/8
1 1/16
.750
.500
.250
2 1/4
ELLIPTICAL SECTION
(DIM'S ARE OUTSIDE DIM'S)
NOTED
COUPLING - HOSE
MANIFOLD - FUEL CELLS
CONSOLIDATED AIRCRAFT CORP
B 32G1519

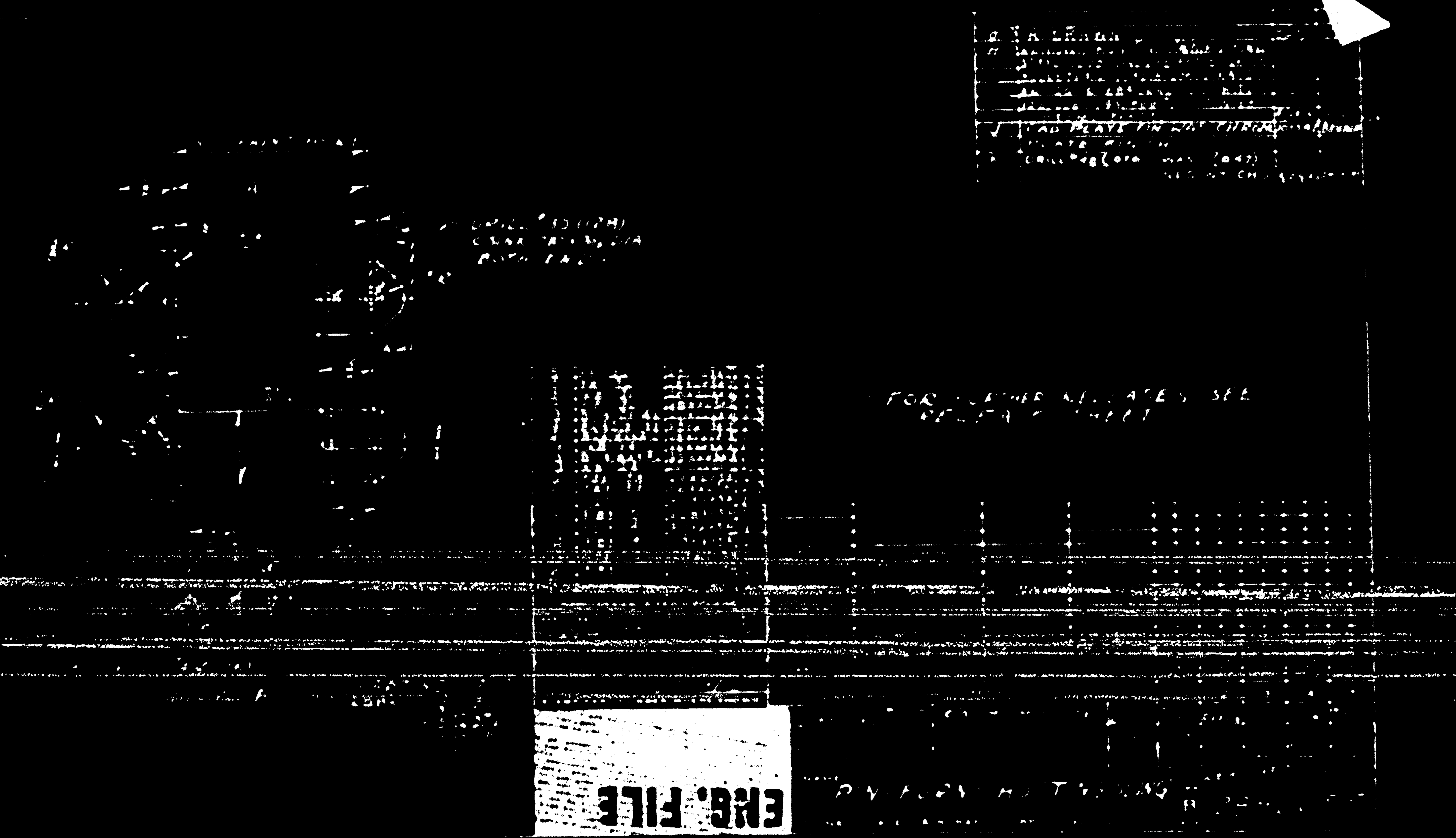


.0 .2 .3 .4 .5

NAME

CONSOLIDATED AIRCRAFT CORP

B 28H1041




28L1044



PARTS LIST PER ASSY

O	-2	-3	-4	-5

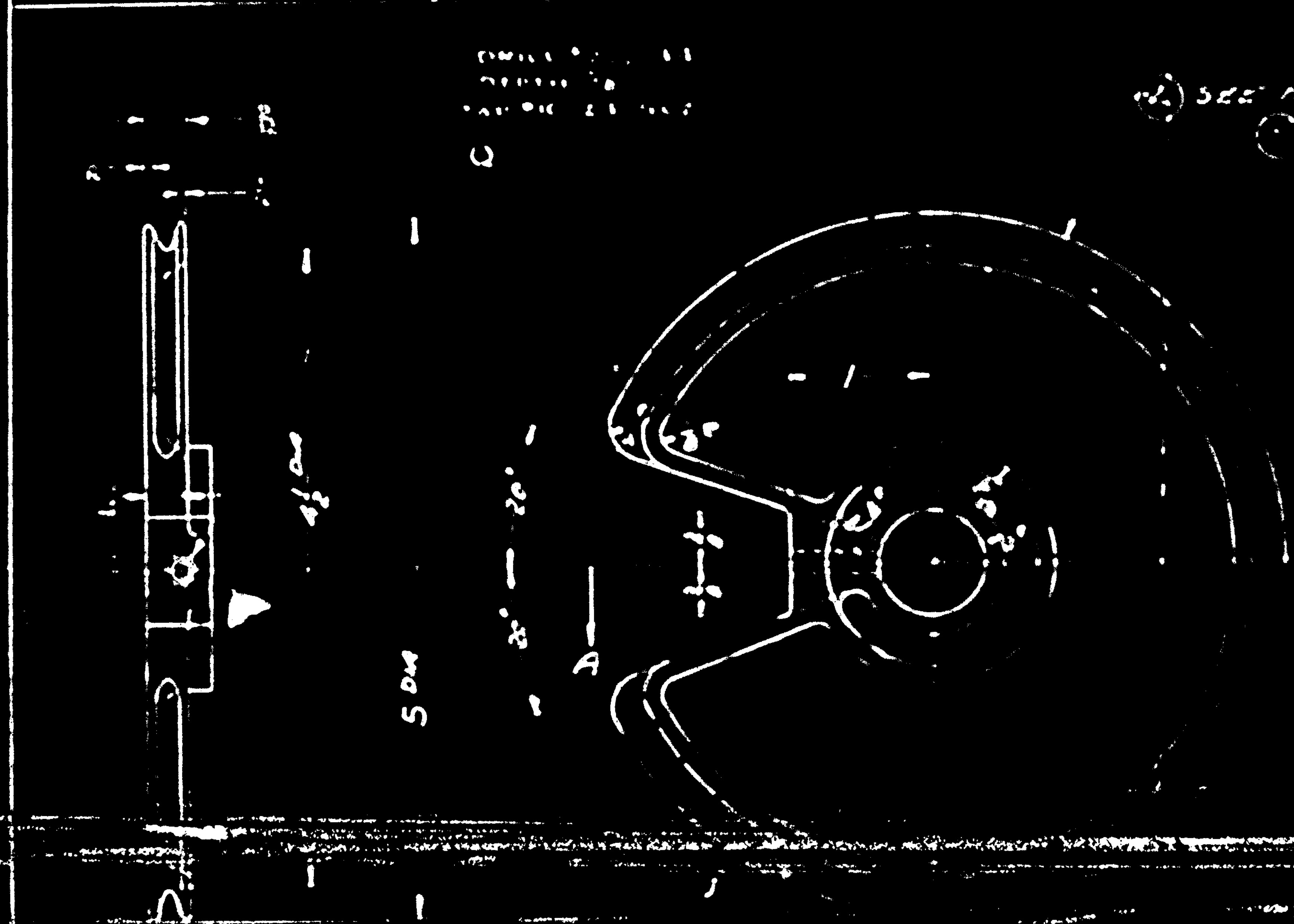
NAME

FILE

CONSOLIDATED AIRCRAFT CORP

B

...NOR CONDITION		BATTLE CONDITION		CRUISING CONDITION		ITEM NO.
NOTES	AMPS.	NOTES	AMPS.	NOTES	AMPS.	
					0.17	1
	0.34					2
			0.17		0.17	3
			0.34		0.34	4



	.38				.38	35

CHANGED DATE

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO CALIFORNIA

LOAD ANALYSIS CHART

MODEL PB2Y CONTRACT # [illegible] SHIPS [illegible] GOVERNMENT FURNISHED EQUIPMENT

ITEM NO	ITEM	LOAD PER UNIT IN AMPS	TOTAL NO OF UNITS	UNITS OPERATING CONTINUOUSLY	SECS. PER OPERATION	OPERATIONS PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION NOTES	ANCHOR CONDITION AMPS	BATTLE CONDITION NOTES	BATTLE CONDITION AMPS	CRUISING CONDITION NOTES	CRUISING CONDITION AMPS	ITEM NO.
1	36 RADIO TRANSMITTING EQUIP.						MODEL GO-9	WESTINGHOUSE ELEC. & MFG. CO, BALTIMORE, MD		10.5		10.5		10.5	86

CHECKED BY
APPROVED BY

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

MODEL PBY-5A CONTRACT NO. [illegible] CONTRACTOR FURNISHED EQUIPMENT

PAGE 1 [illegible]

ITEM NO.	ITEM	LOAD PER UNIT IN AMPS.	TOTAL NO. OF UNITS	UNITS [illegible]	SECS. PER OPERATION	[illegible] PER HOUR PER UNIT	PART NO.	REMARKS	ANCHOR CONDITION		BATTLE CONDITION		CRUISING CONDITION		ITEM NO.
									NOTES	AMPS.	NOTES	AMPS.	NOTES	AMPS.	
1	OIL QUANTITY GAUGE [illegible]	0.5	1	1	10	4	SK-[illegible]-31	[illegible] CORP. LIGHTING [illegible]			MOM.	0.5	MOM.	0.5	1
5	HOIST MOTOR-[illegible]	25.0	1	1	MOM.		[illegible]	G.E. CO. [illegible]							
								LESS MOMENTARY		[illegible]		26.[illegible]		112.[illegible]	
								TOTAL CONTINUOUS		[illegible]		[illegible]		13.0[illegible]	

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

LOAD ANALYSIS CHART

MODEL PBY-5A CONTRACT NO. 8556 GOVERNMENT FURNISHED EQUIPMENT

ITEM NO.	ITEM (⊕ DENOTES A.C. LOAD)	LOAD PER UNIT IN AMPS	TOTAL NO. OF UNITS	UNITS OPERATING SIMULTANEOUSLY	SECS. PER OPERATION	OPERATION PER HOUR PER [illegible]	PART NO.	REMARKS	ANCHOR CONDITION		BATTLE CONDITION		CRUISING CONDITION		ITEM NO.
									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
		24.16													
31	FREQUENCY MEASURING EQUIP	.38	1	1	C	C	MODEL LM-10	BENDIX RADIO CORPN.		.38				.38	31
32	RADIO DIRECTION FINDING EQUIP	.36	1	1			MODEL DW	BENDIX RADIO CORPN.						.36	32
33	RADIO-INSTRUMENT LANDING EQUIP	2.0	1	1			MODEL ZA	AIR TRACK MFG. CO.						2.0	33
34	RADIO EQUIPMENT	1.14	1	1	C	C	MODEL ZB	ZENITH RADIO CORPN.				1.14		1.14	[illegible]

LOAD ANALYSIS CHART

ZM-28-026

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

MODEL PBY-5A CONTRACT NO. [illegible] GOVERNMENT FURNISHED EQUIPMENT

ITEM NO.	ITEM	LOAD PER UNIT IN [illegible]	TOTAL NO. OF UNITS	UNITS [illegible]	SECS. FOR OPER.	ANCHOR	BATTLE	CRUISING	ITEM NO.
								0.5	57
								2.5	
								9.46	
								2.50	
								6.96	
								5.47	
								2.44	
								3.03	
								9.95	

COMPUTED BY L.C. Wright 4/1/43
CHECKED BY [illegible]
APPROVED BY [illegible]

ENG. FILE

OPPOSITE HAND



REMOVE BURRS
DRILL 7/16 2 HOLES
CSINK 82° x .312 DIA
ONE SIDE ONLY

SPEC. 1759

FITTING-NACELLE COWL-PANEL SUPPORT

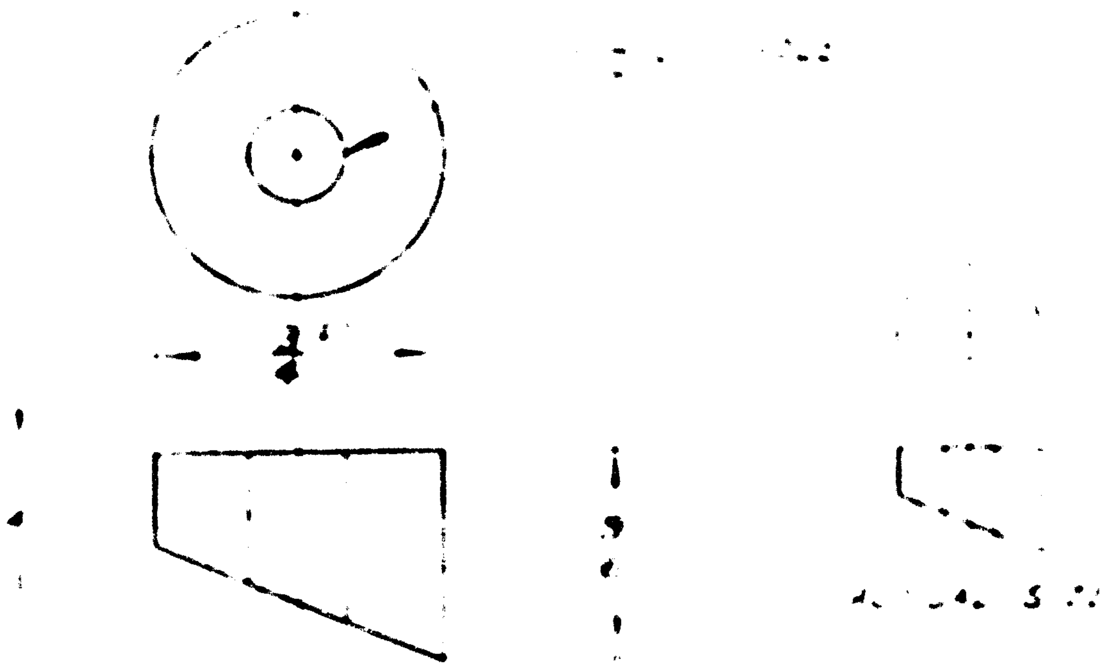
CONSOLIDATED AIRCRAFT CORP.

DR'WG No 28D3009

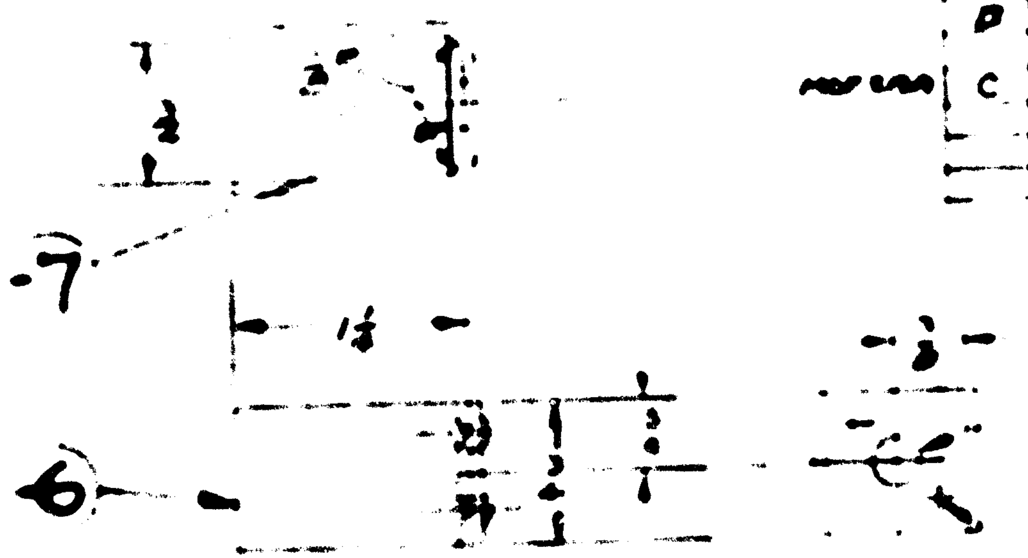
8008083

28F4049

DATE	BY



A 23-738



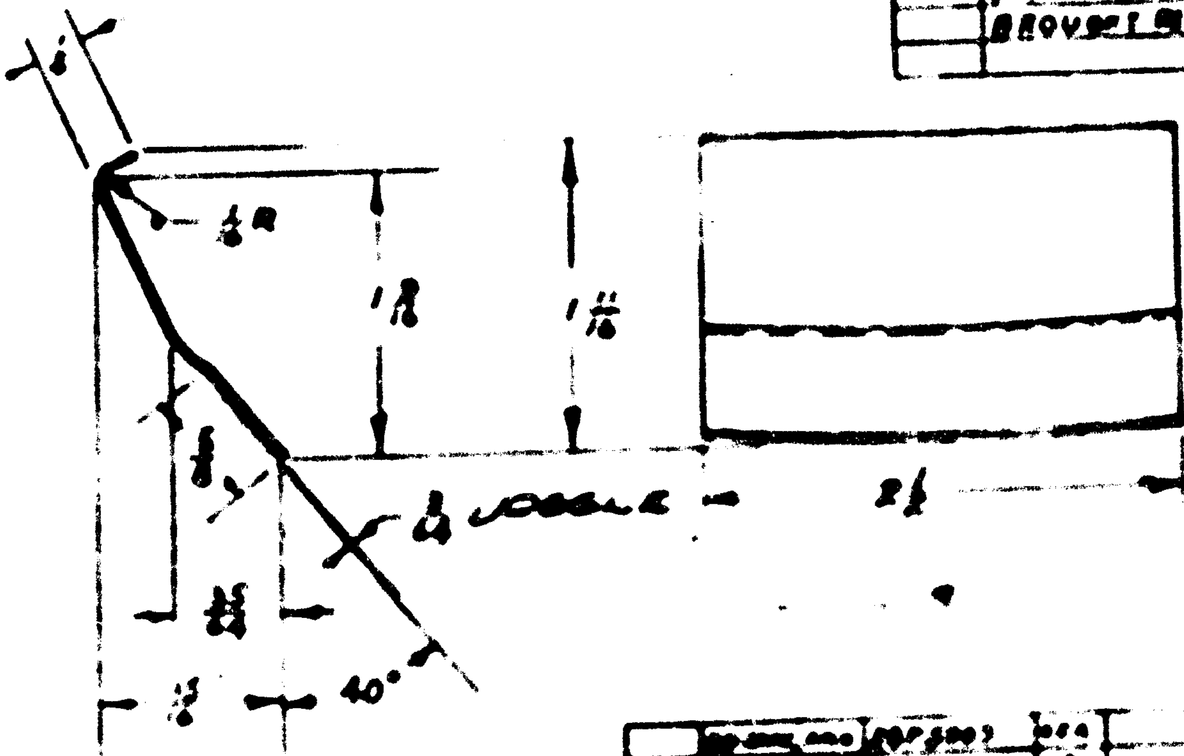
A	[illegible]
B	CANCELED & REPLACED BY SOLAR #1-1759
C	REINSTATED 28 O 5012. WAS CANCELED & REPLACED BY SOLAR #1-1759 BROUGHT [illegible] UP TO DATE [illegible]

FINISH CODE	
Z	[illegible]
P	[illegible]
A	[illegible]
C	CADMIUM PLATE

CONSOLIDATED AIRCRAFT CORP

A 280 501

3105-0-82 R



SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
A	CANCELLED & REPLACED BY SOLAR # 1-1765	5-1-43	[illegible]
B	REINSTATED 28P5003, WAS CANCELLED & REPLACED BY SOLAR # 1-1765. BROUGHT REVISION BLOCK UP TO DATE. NO WT CHG	10-13-43	[illegible]

TOLERANCES: ± 1/32 / 1/2°

SCALE 12" = 1'-0"

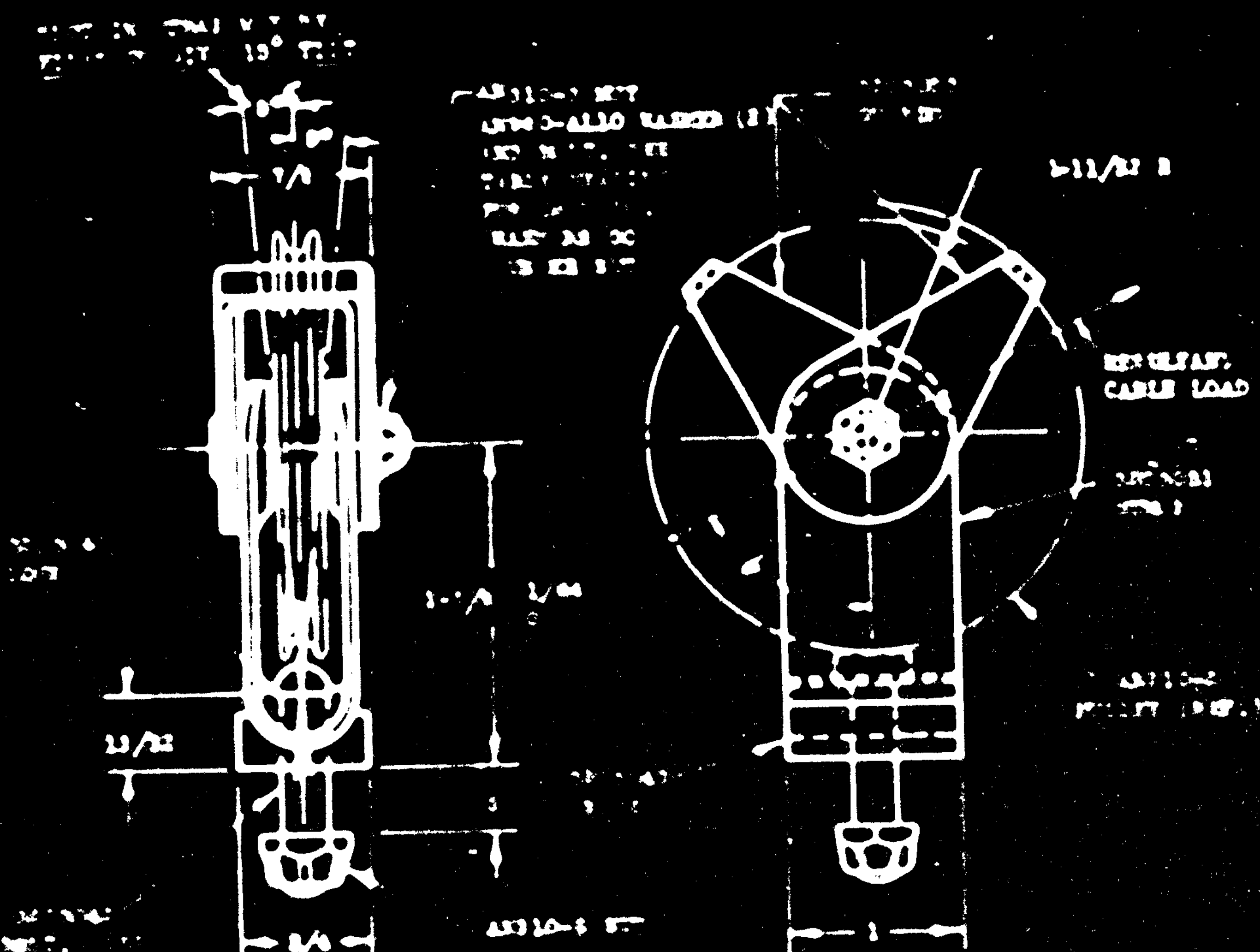
NONE

NONE

CONSOLIDATED AIRCRAFT CORP.

PATCH REINFORCING COWL WELL.

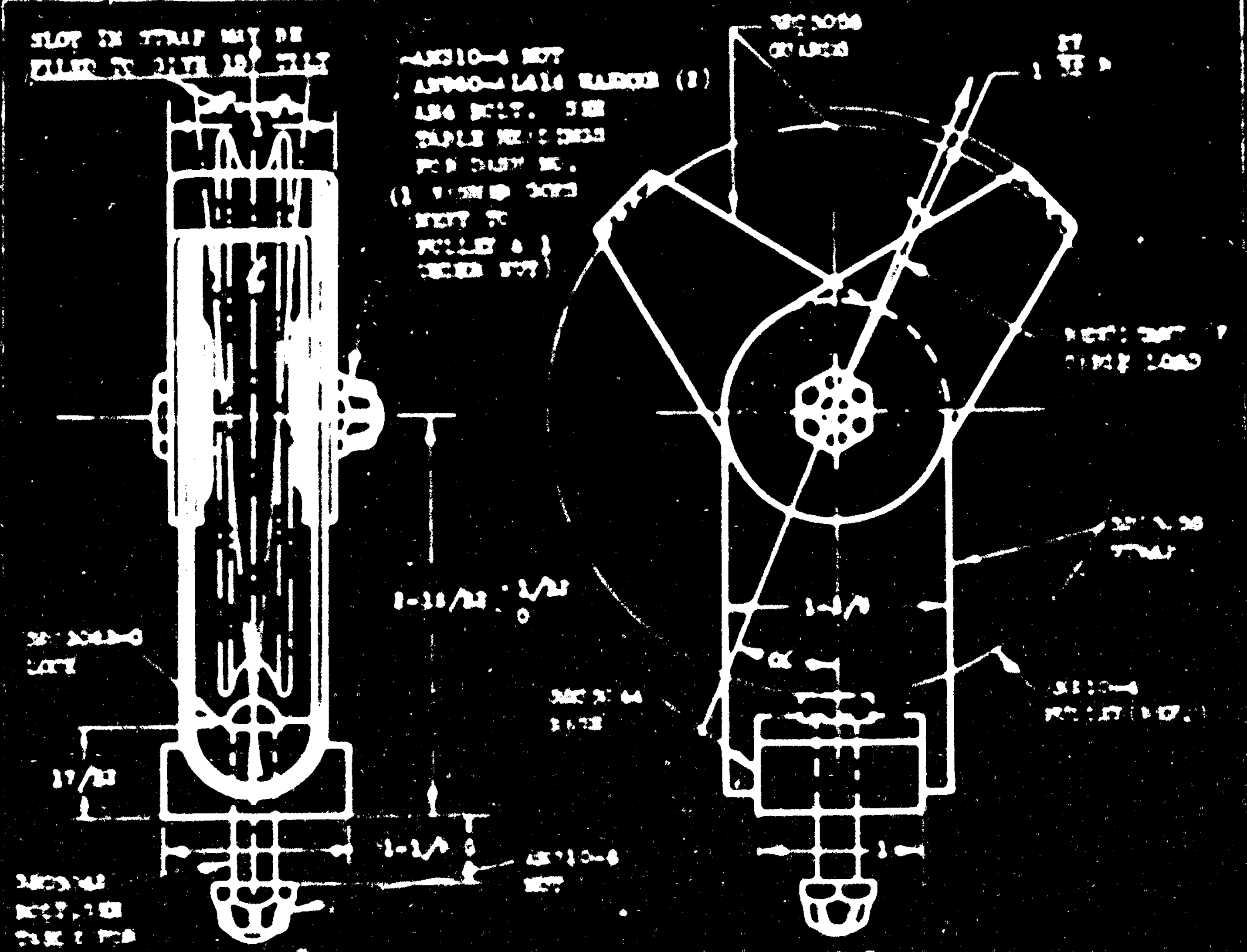
A 28P5083



[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	-0 -13	-1 -13	-? -13	1 3/8	[illegible]
	-0 -14	-1 -14	-? -14	1 1/2	[illegible]

BRACKET-[illegible]-PULLEY

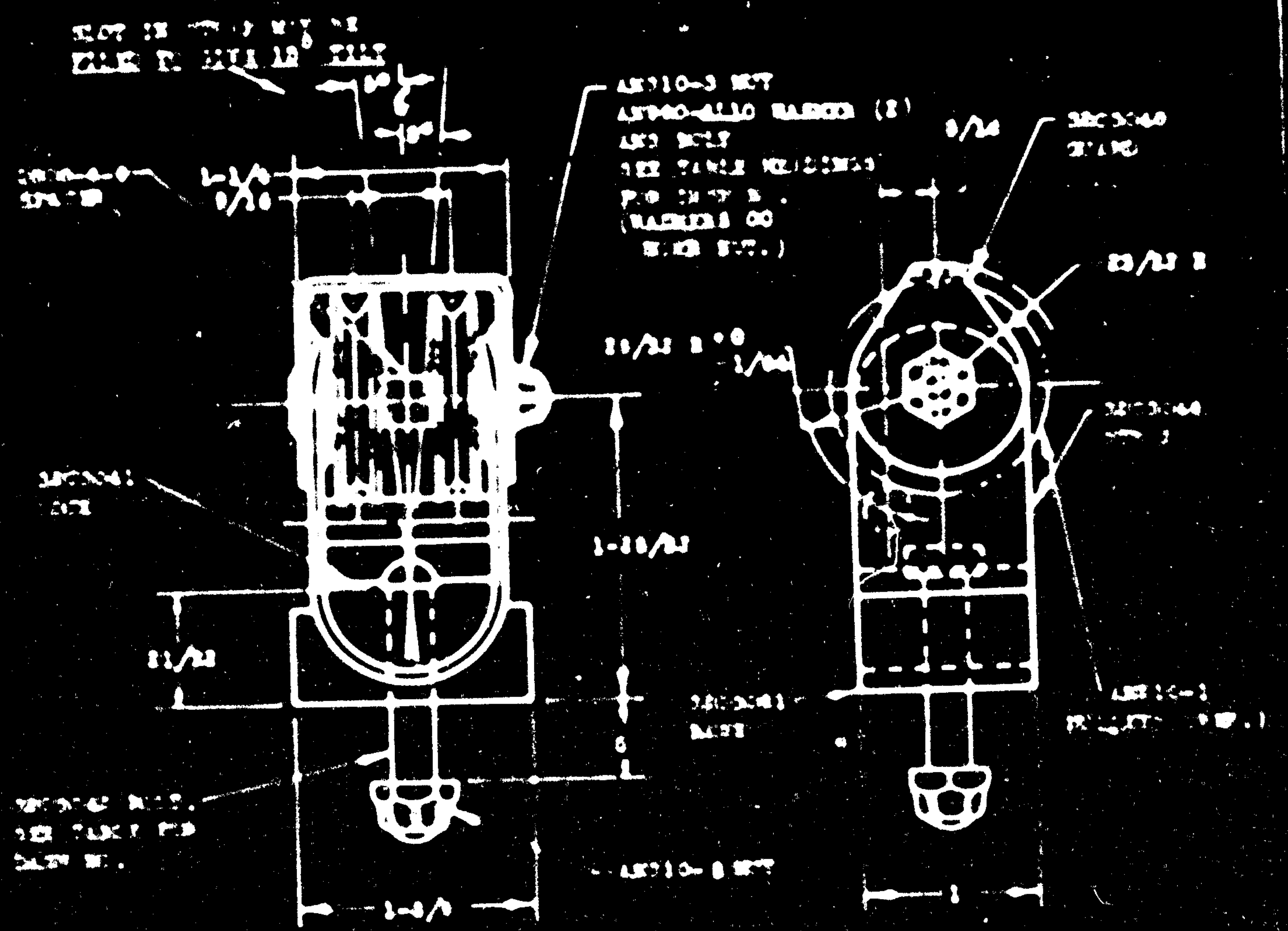
PART NUMBER 94002



[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
-9 -11	[illegible]	[illegible] -11	1 1/4	[illegible]
-9 -13	-1 -13	-9 -13	1 3/8	-23
-9 -14	-1 -14	-9 -14	1 1/2	-24

BRACKET-3½ PULLEY

PART NUMBER 94004



BRACKET-TWO-1¼-PULLEY

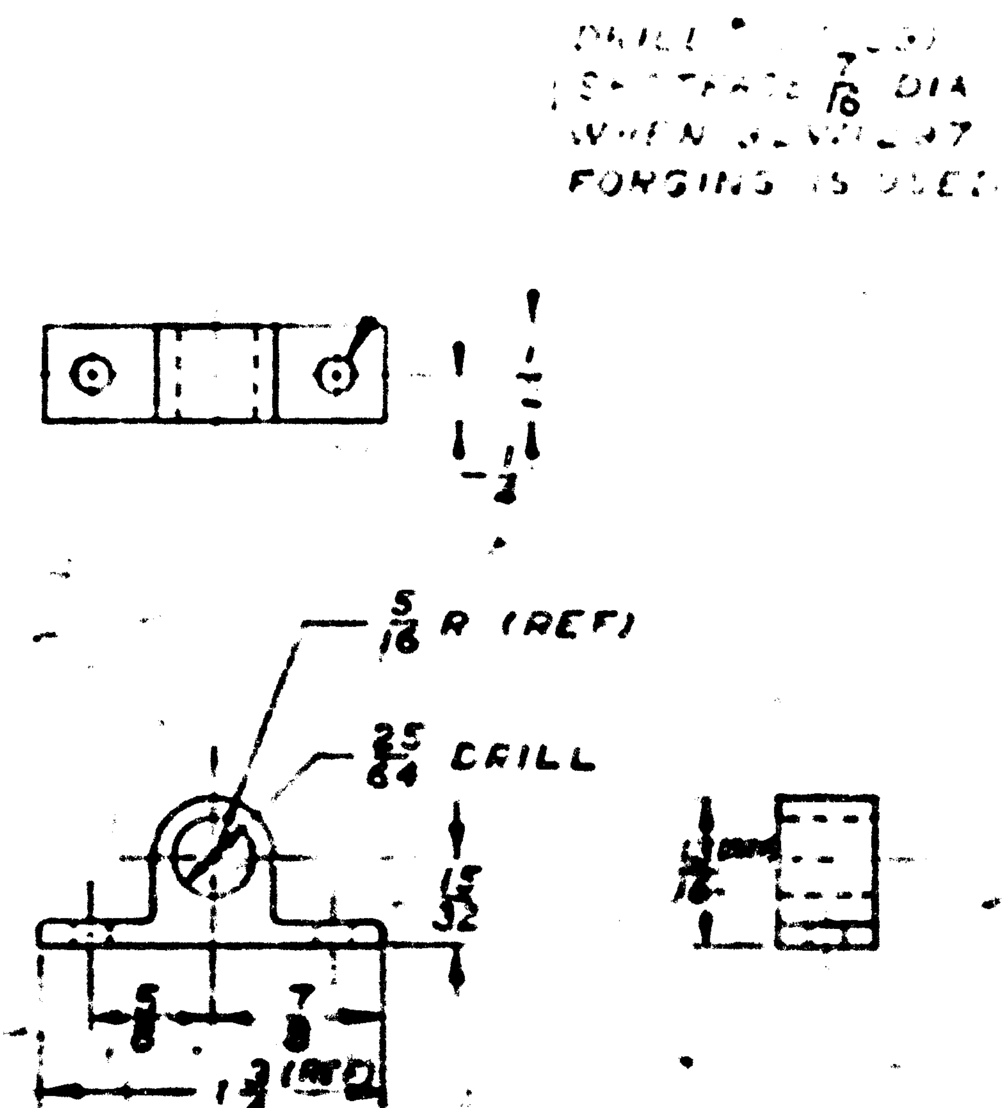
94011

1	2	3	4	5

NAME

E

C[illegible] A[illegible] CORP



MATERIAL NOTE

MAT. MAY BE:

(A) K13681 × 5/8 AL ALLOY EXT. SPEC QQ-A-354 COND T. OR

(B) K13681 × 5/8 AL ALLOY EXT. SPEC AN-A-8 COND T. OR

(C) FORGING 32W1297

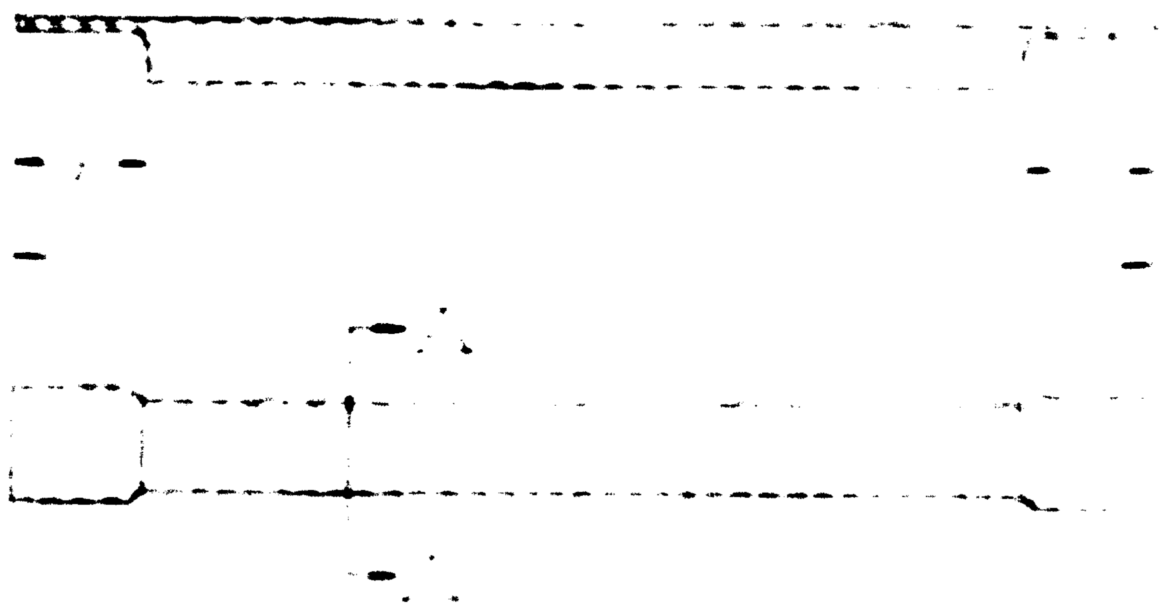
FILE

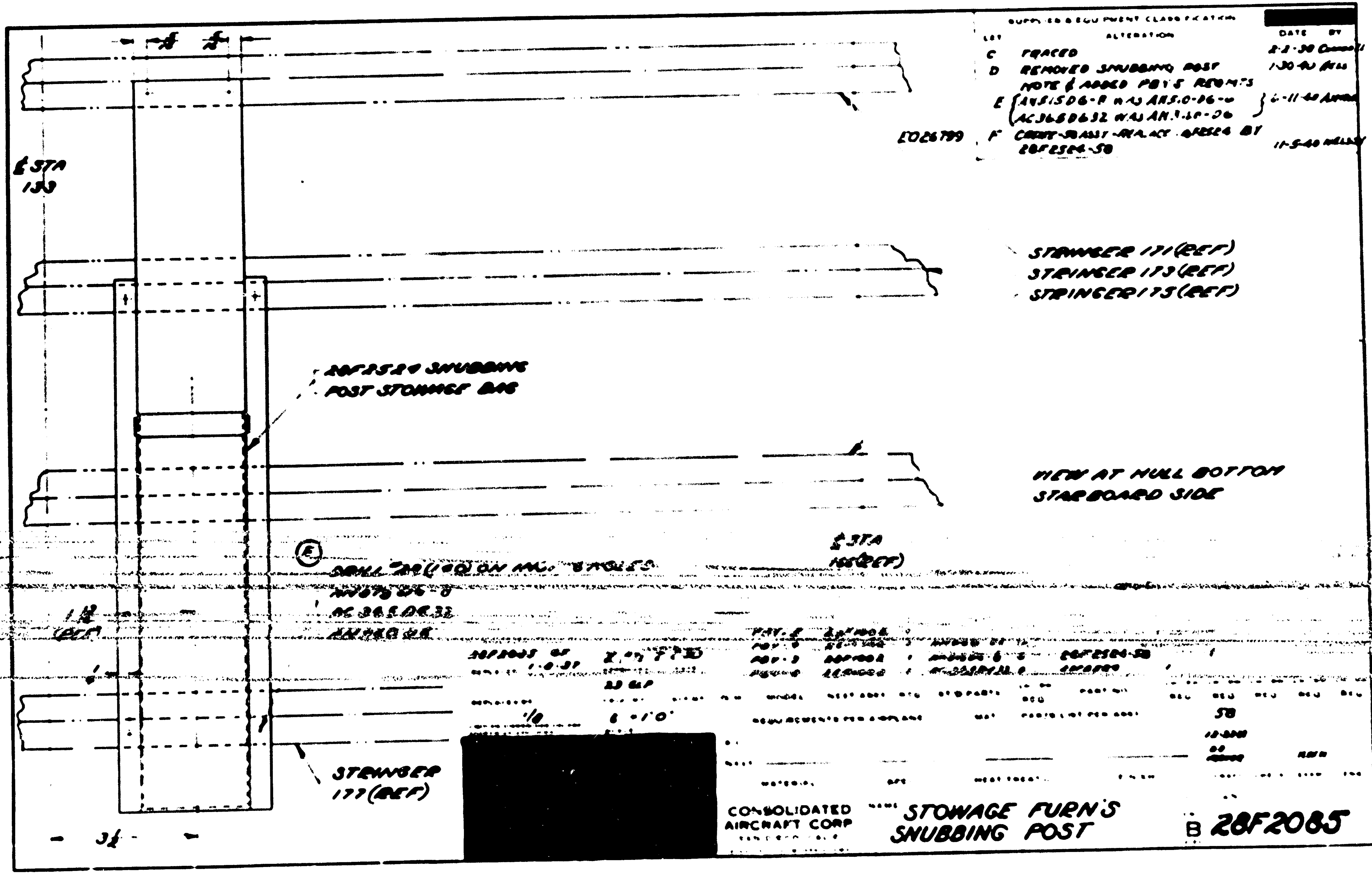
NAME

WATE

B 28-2137

CONSOLIDATED AIRCRAFT CORP.

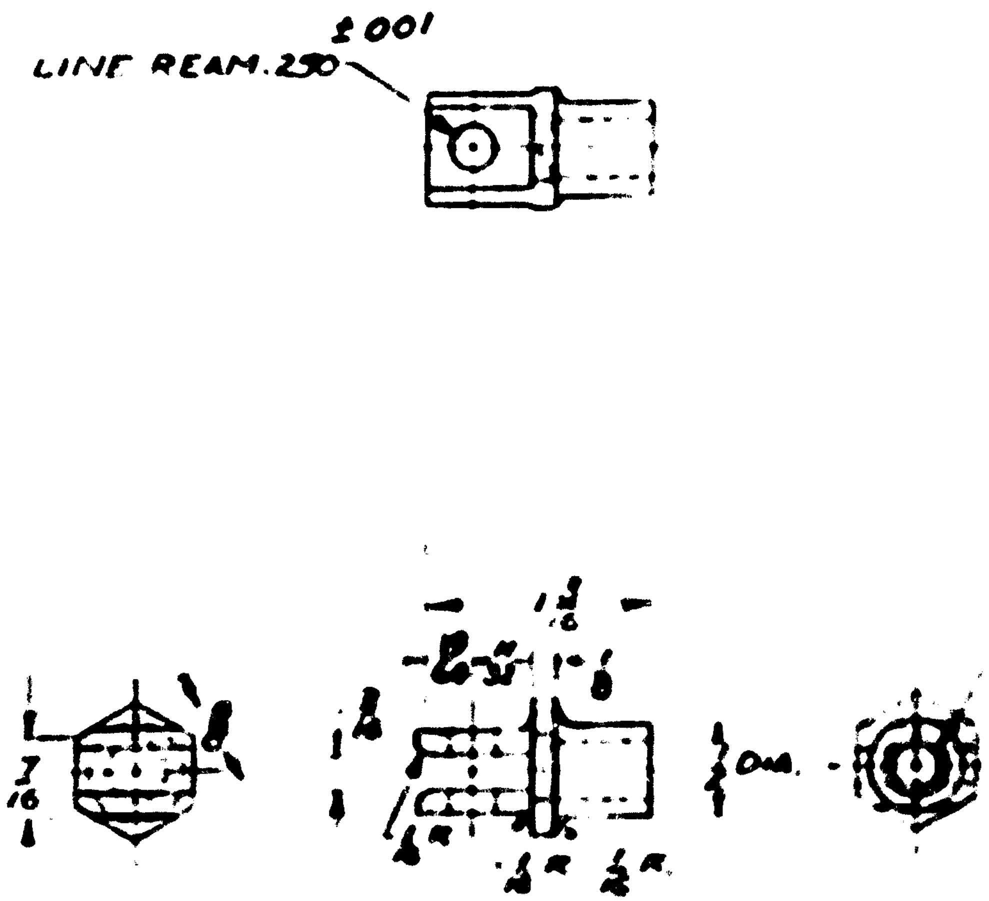




C TRACED
D REMOVED SNUBBING POST NOTE & ADDED PBY'S REQ'M'TS
E AN515D6-8 WAS AN510-D6-8 / AC365D632 WAS AN365-D6
F CHGE-SB ASSY-REPLACE 28F2524 BY 28F2524-5B
EO26799
STRINGER 171 (REF)
STRINGER 173 (REF)
STRINGER 175 (REF)
28F2524 SNUBBING POST STOWAGE BAG
VIEW AT HULL BOTTOM STARBOARD SIDE
STRINGER 177 (REF)
CONSOLIDATED AIRCRAFT CORP
STOWAGE FURN'S SNUBBING POST
B 28F2085

28G1016

LET	ALTERATION	DATE
H	TRACED. NO WT. CHG.	



28B1MC	28G1011	2
7B-5MC	28G1011	2
FOR-5A	28G1011	
PBY-5	28G1011	2
PB2Y-3	28G1011	2
PB2Y-2	28G1011	2
PB2Y-1	28G1011	
PBY-4	28G1011	
PBY-3	28G1011	
PBY-2	28G1011	
PBY-1	28G1011	
P3Y-1	28G1011	

11-25-36

D10 — .2"x1.0"

PARTS LIST PER ASSY

180,000 TO 195,000

C

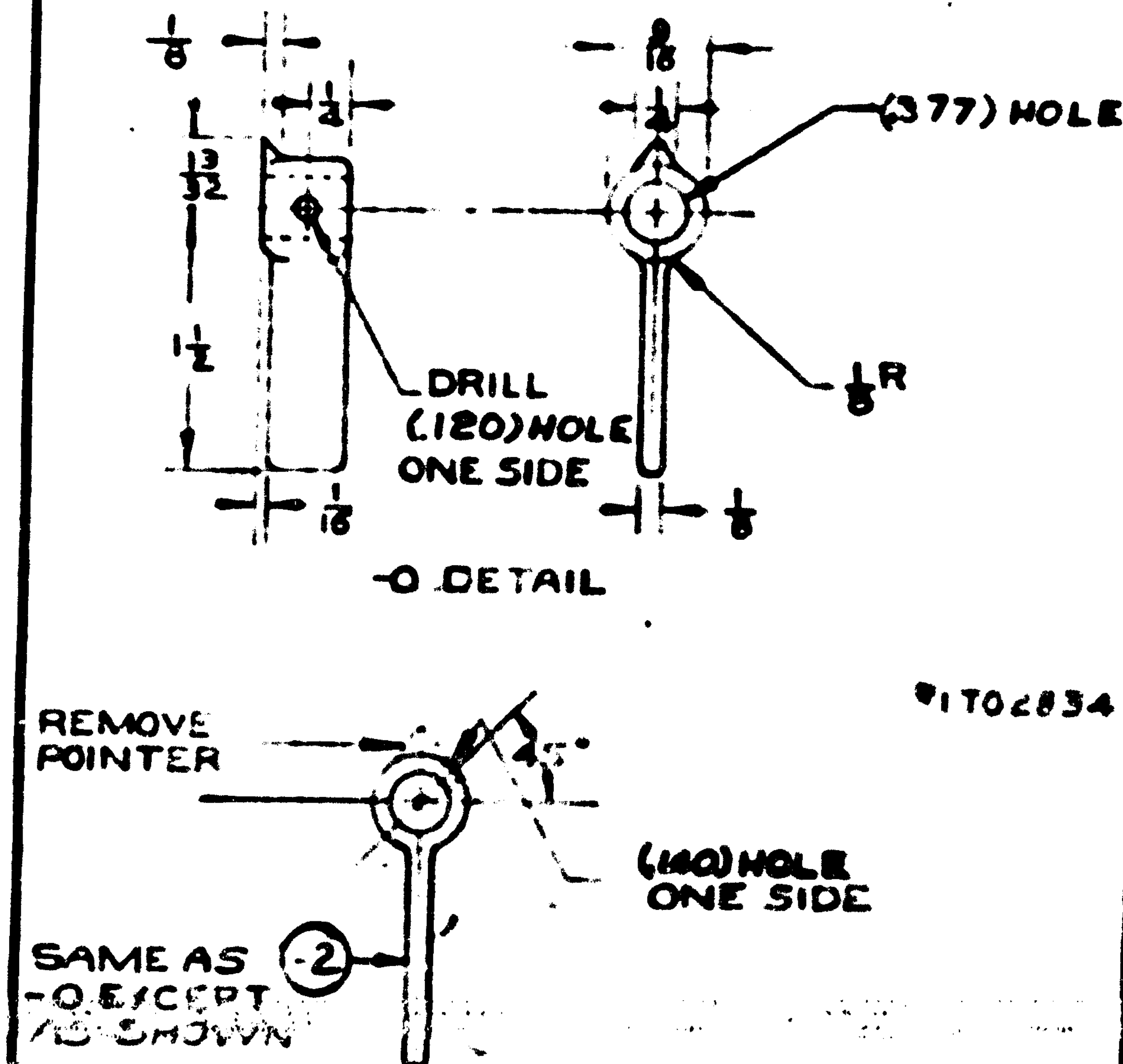
DOLAN

FORK-RR FUEL SYSTEM DUMP VALVE

CONSOLIDATED AIRCRAFT CORP

B 28G1016

LET	ALTERATION	DATE
J	TRACED NO WT CHG	[illegible]



#1T02834

ROUGH CASTING -3 (SAME AS 5G117)

NOTE: MATERIAL FOR -3

1. ALL 5-195T6 SPEC AN-A-5 CL II, 32,000 PSI

2. ALL #195 T4 SPEC AN-QQ-A-390 CL3, 29,000 PSI

FINISH CODE	
F	[illegible]
P	[illegible]
CP	[illegible]
C	[illegible]

PARTS LIST FOR ASSY: -0, -2, -3, -4, -5

AC NOTED — ZF-3?-001

NAVY NOTED — Z-P

NAME: HANDLE-FUEL SYSTEM-PLUG VALVE

CONSOLIDATED AIRCRAFT CORP

SCALE: NONE

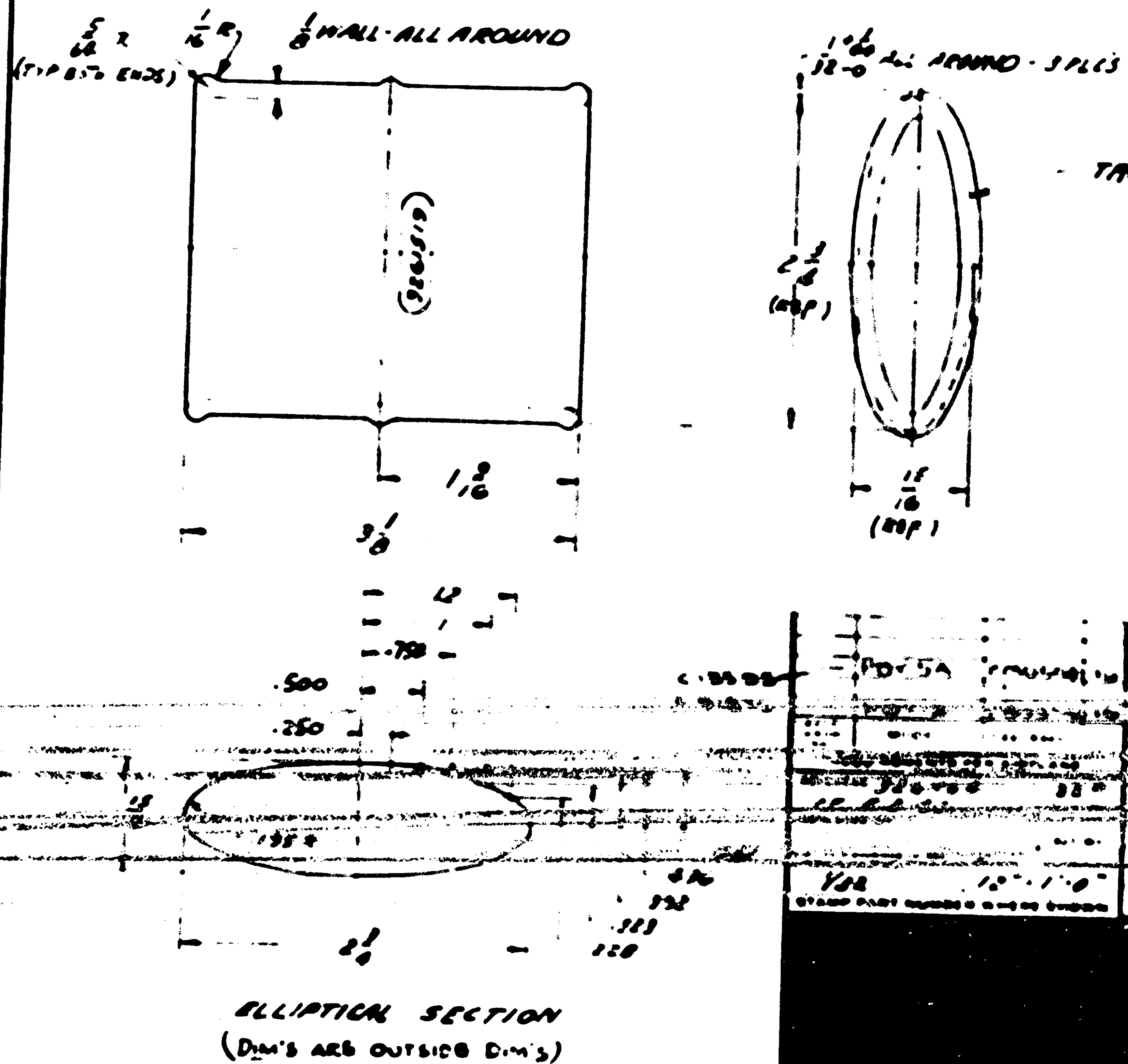
B 28G10[illegible]



STAMP PART NUMBER WHERE SHOWN

NAME

B



A REMOVED FROM DWG ... NOTE STAMP (NO WT CHG)

B DWG CANCELLED

NOTE

(C) ... (CLASS III INSPECTION)

NOTES:

CASTING MUST SHOW NO POROSITY AT 10 #/in HYDRAULIC PRESSURE.

OUTSIDE SURFACE MUST BE SMOOTH.

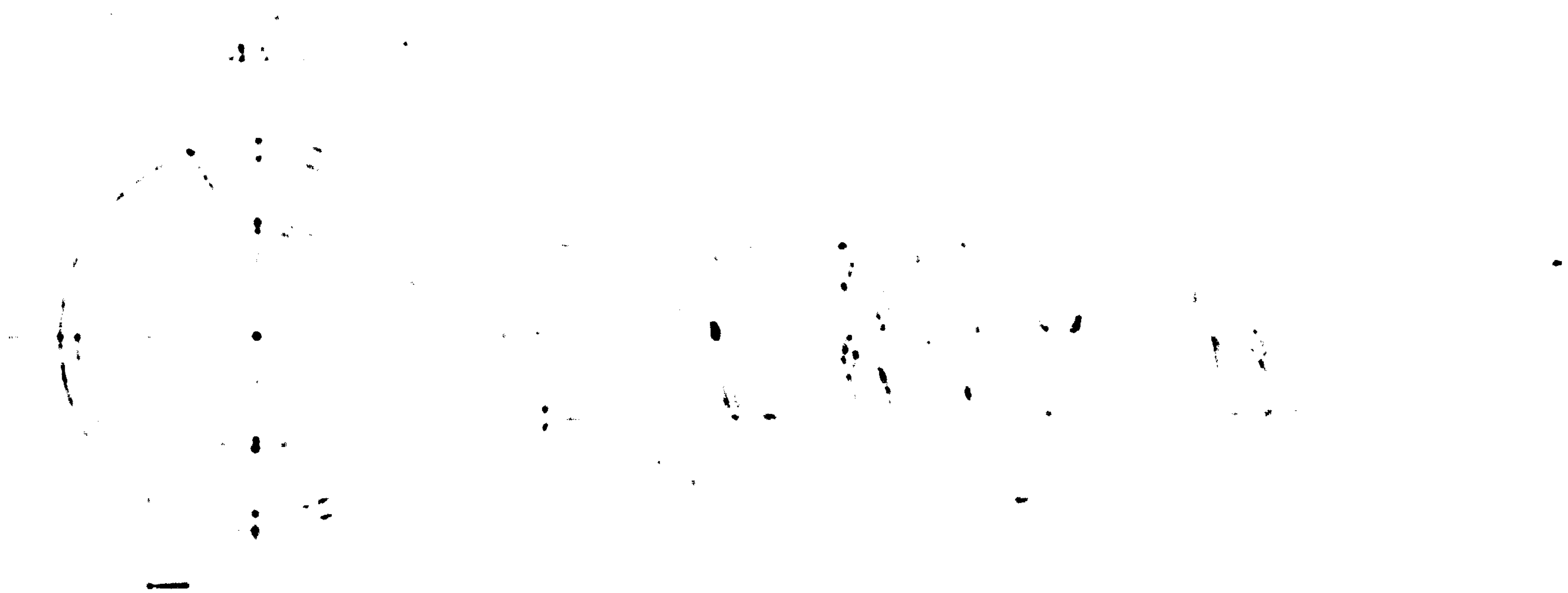
TO BE OSBRINK CASTINGS CLASS III

COUPLING - HOSE MANIFOLD - FUEL CELLS

CONSOLIDATED AIRCRAFT CORP

B 3261519

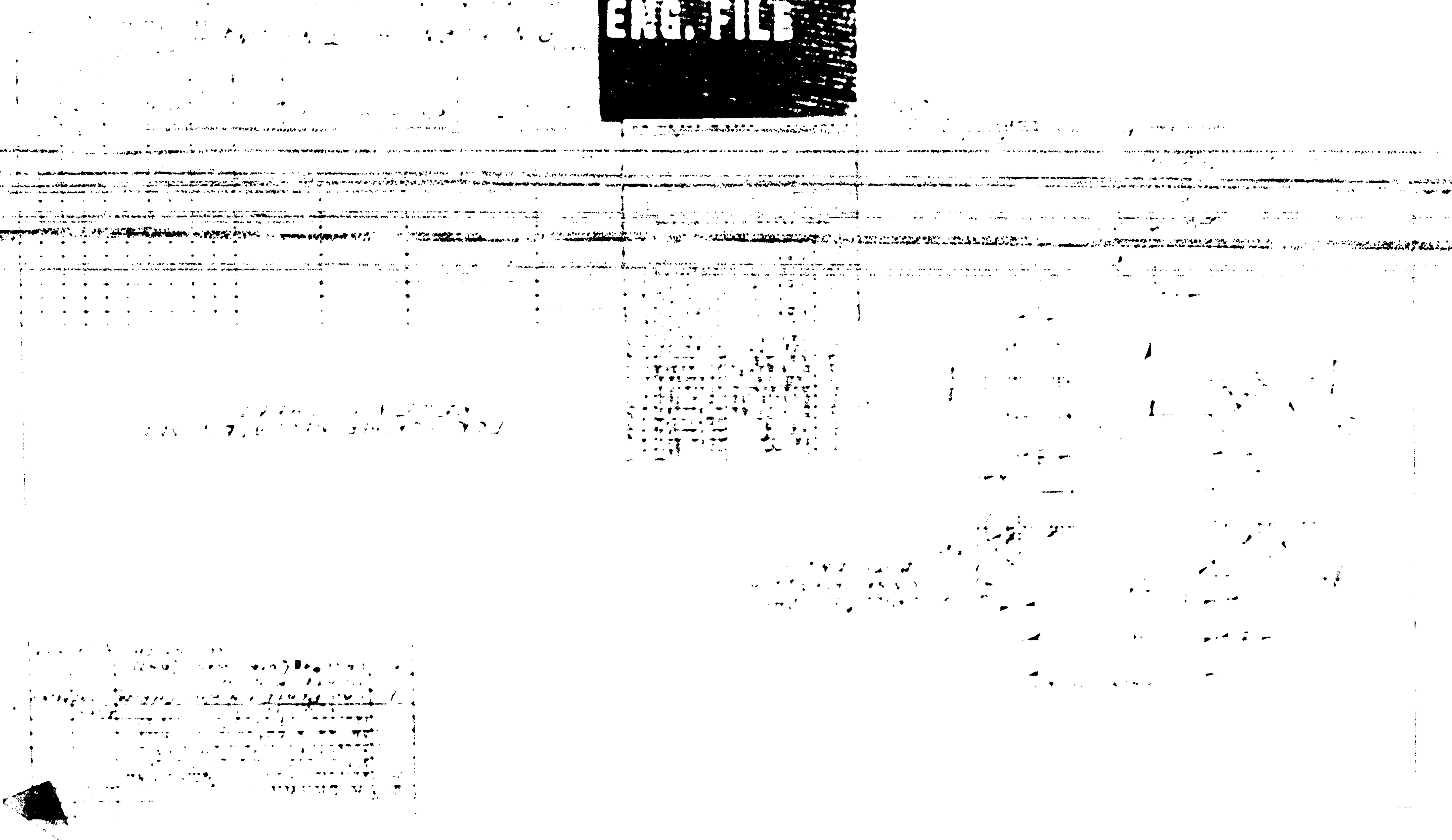
R

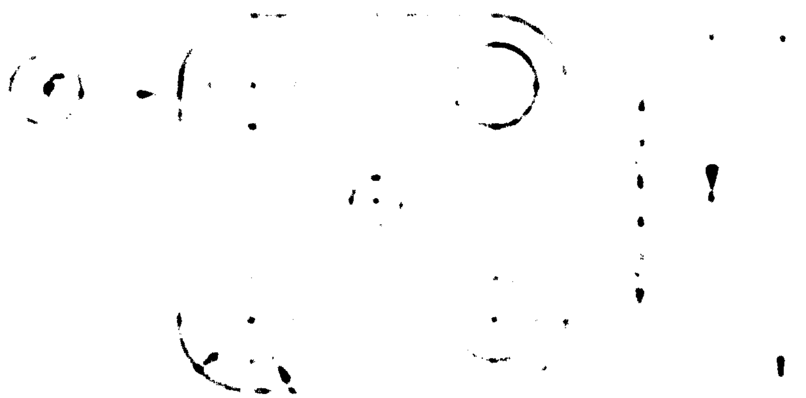


NAME

CONSOLIDATED AIRCRAFT CORP

B 28H1041





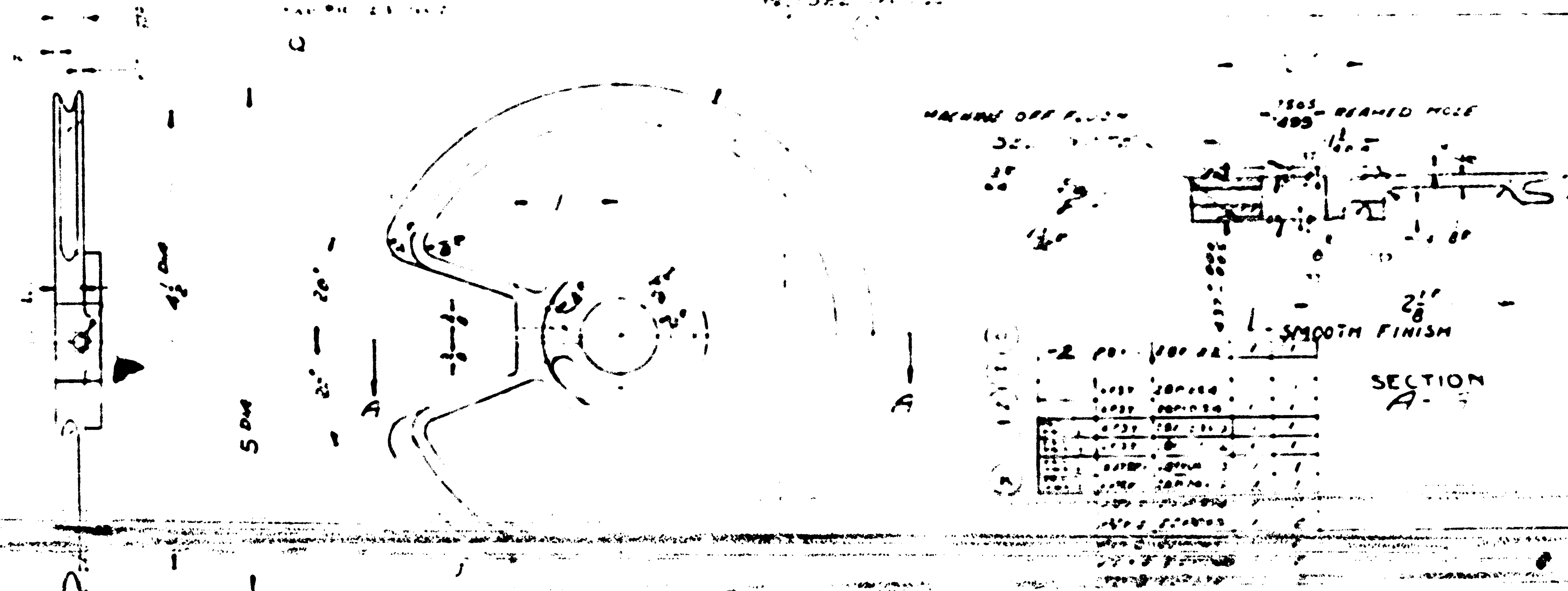
NAME

0	-2	-3	-4	-5

B

CONSOLIDATED AIRCRAFT CORP

OPPOSITE HAND



MATERIAL AL ALLOY CASTING

46A1

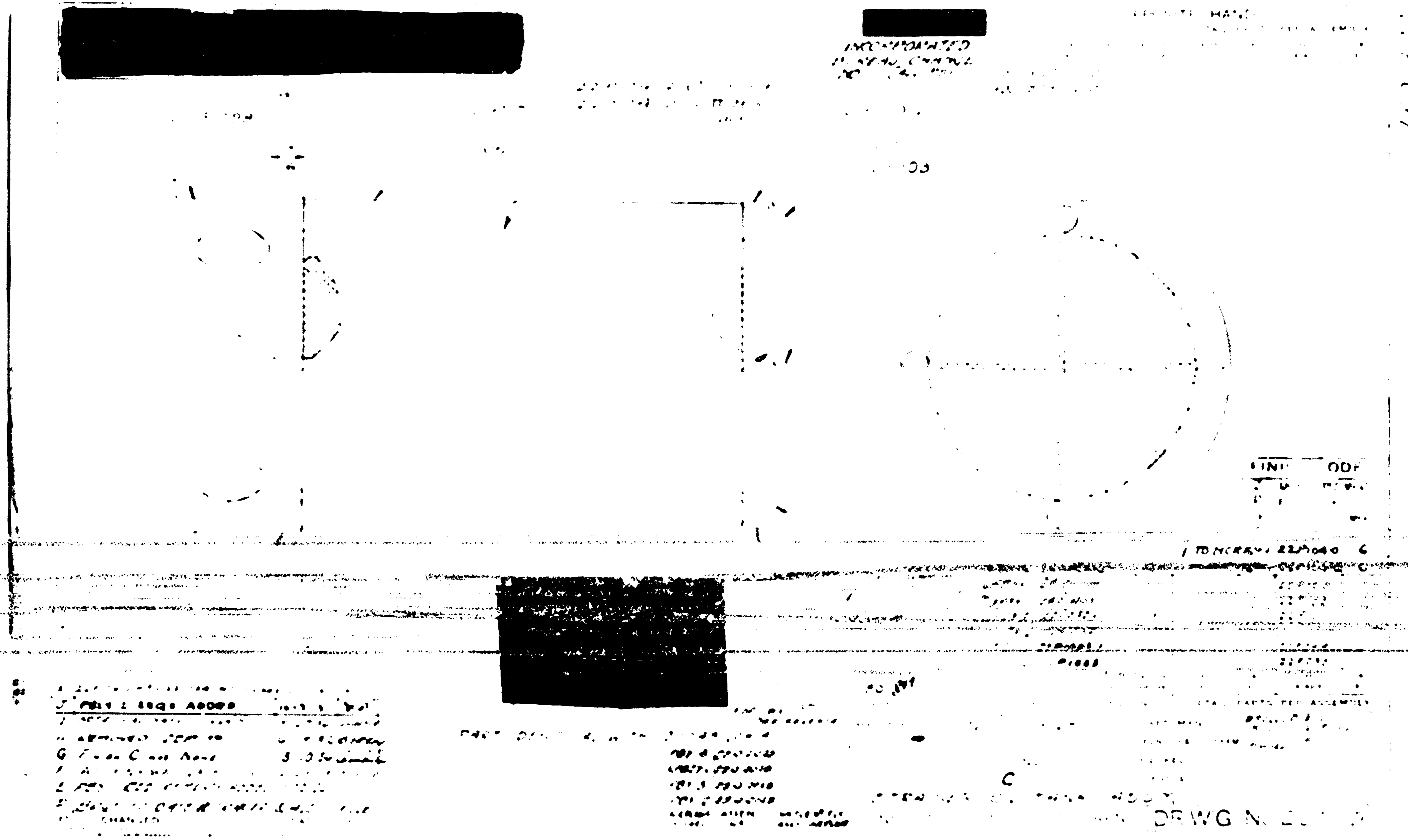
SABAC 4

NONE

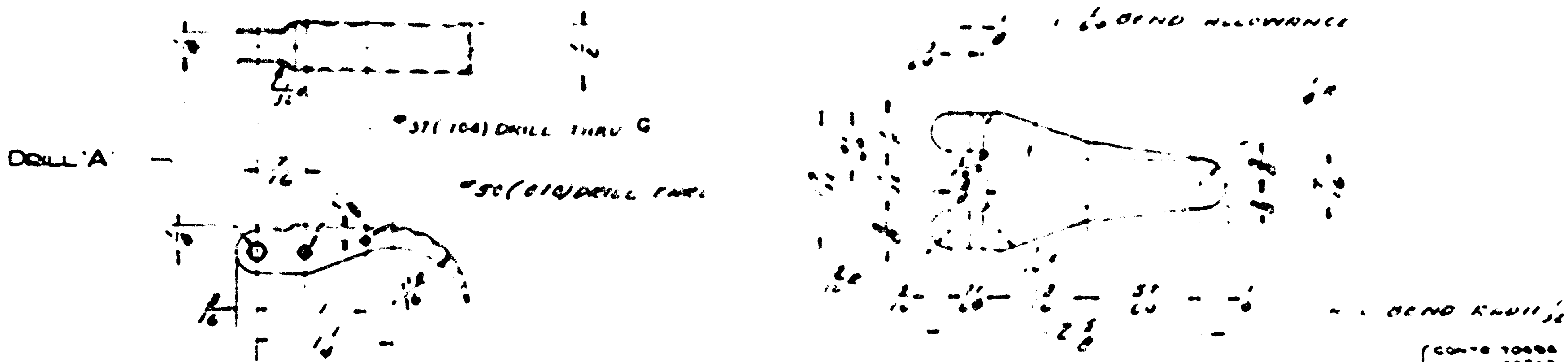
PULLEY-ENGINE CONTROL QUADRANT

CONSOLIDATED AIRCRAFT CORPN

DR'WG No 22P066



INCORPORATED
DRWG N



LET	CHANGED	DATE	CH'K'D
G	DRILL HOLE #37 THRU WAS 3/32 [illegible]		
F	CHG C-P-6P TO C-P-NP	12-7-42	
E	ADDED TABULATION, DRW A	4-4-40	
D	PBY-1 REQ'MTS ADDED	4-15-36	K.R.M.
C	TRACED & BROUGHT UP TO DATE	8-19-35	

FINISH CODE

.032 CLAD ALCLAD SHEET

NONE

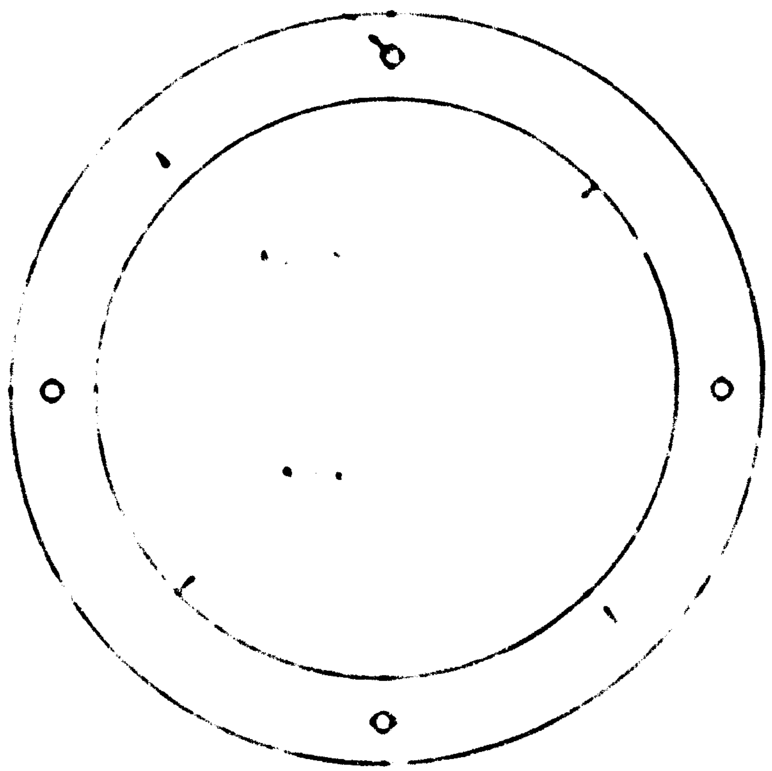
LEVER - [illegible] BOTTLE [illegible]

CONSOLIDATED AIRCRAFT CORP.

DR'WG No 22P641

ENG

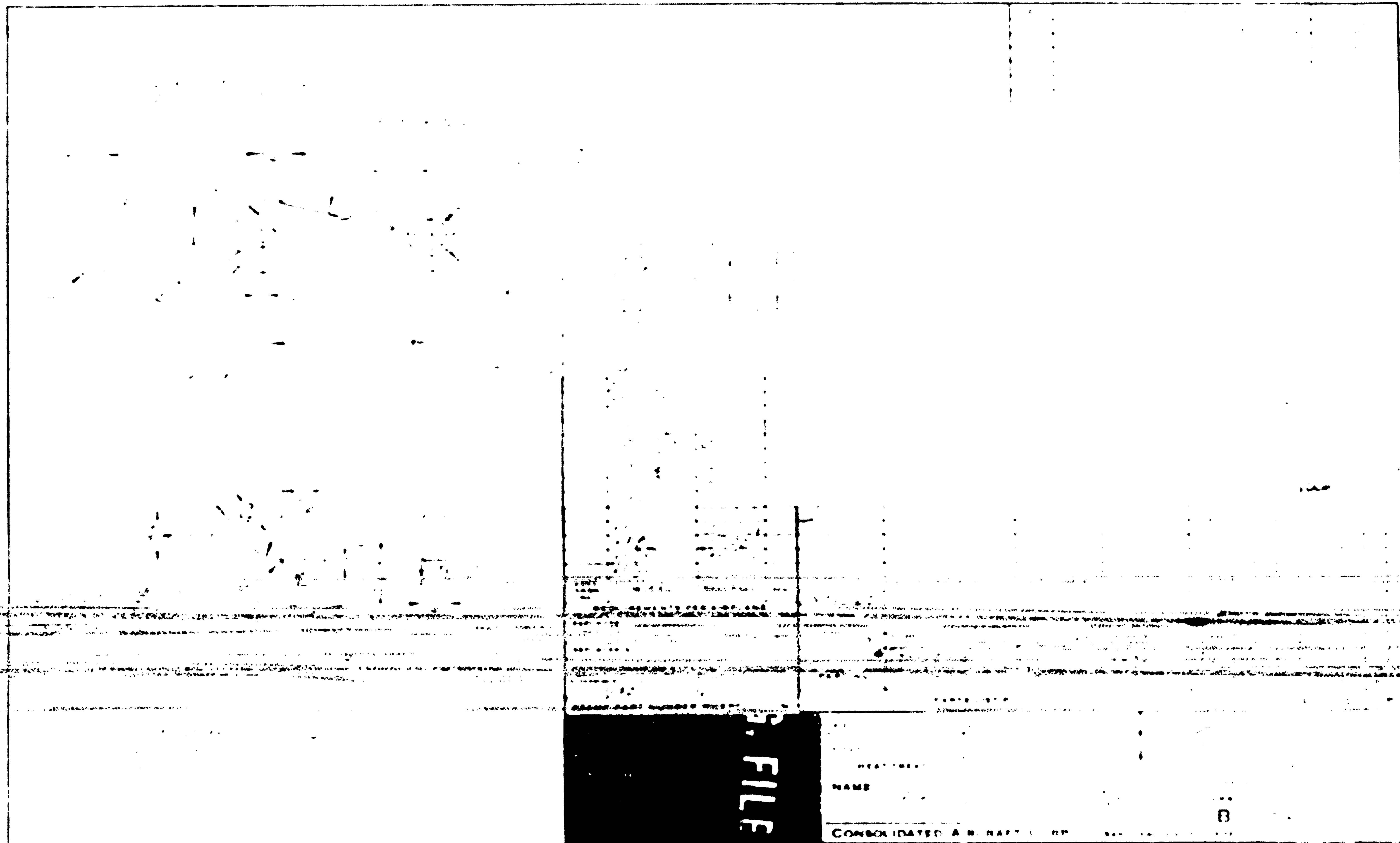
HOOK - POWER PLANT FIRE EXTING BOTTLE BRACKET

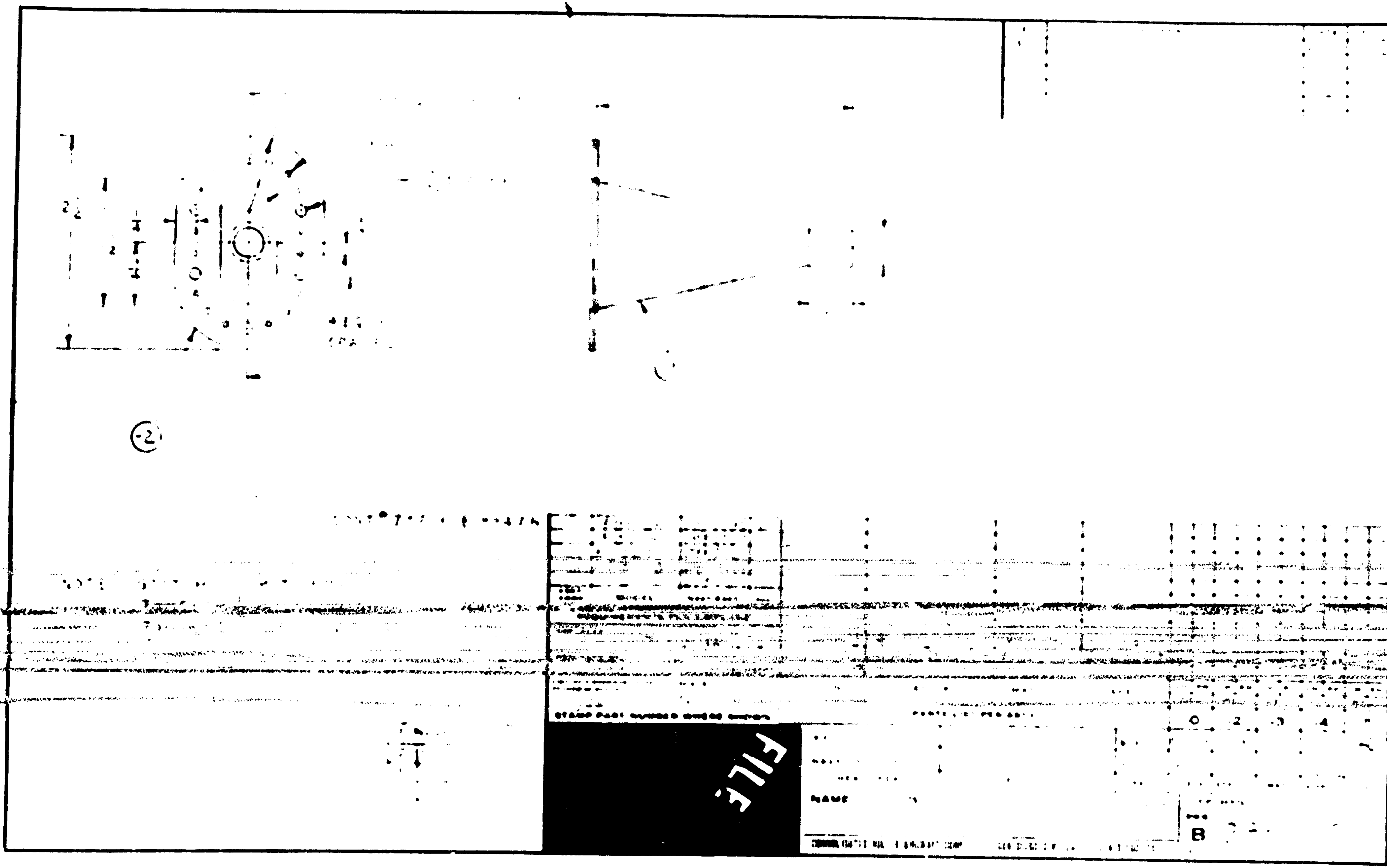


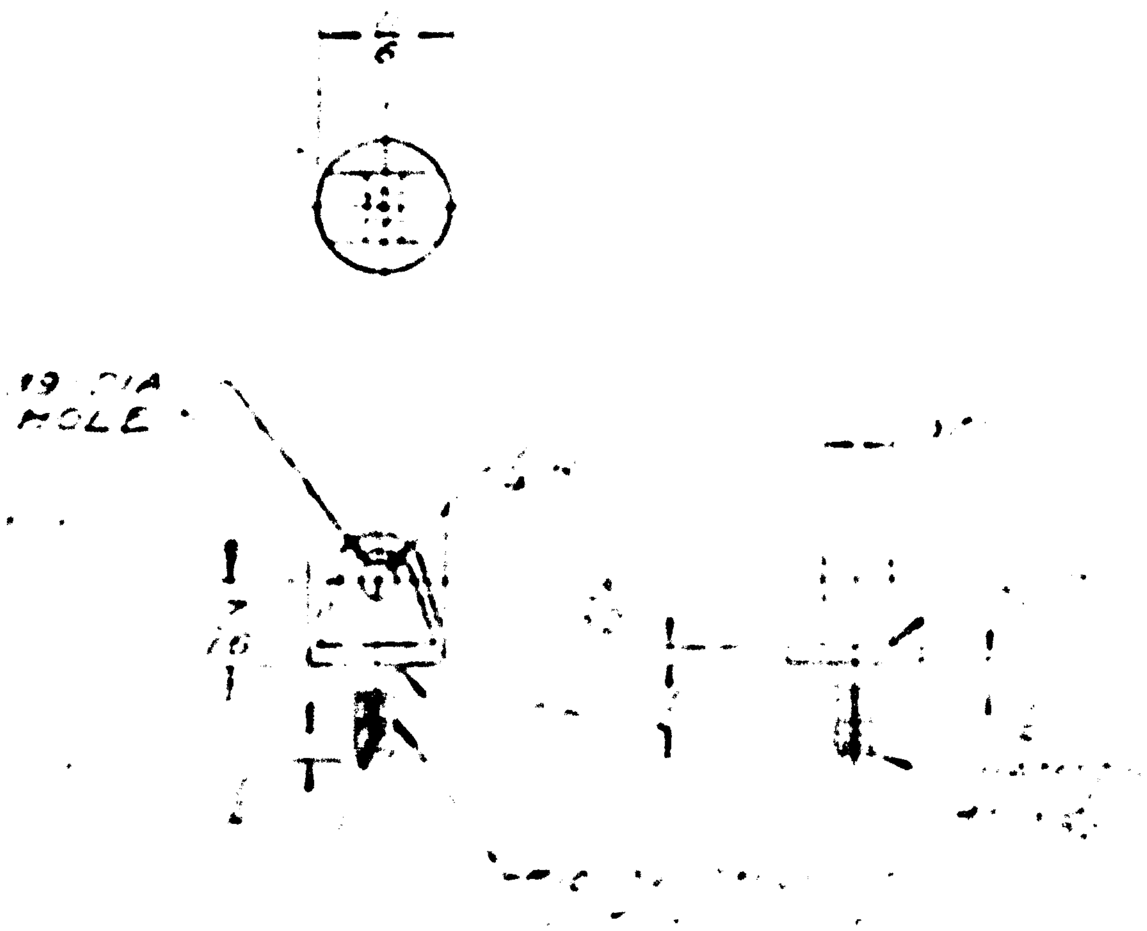
SATUR

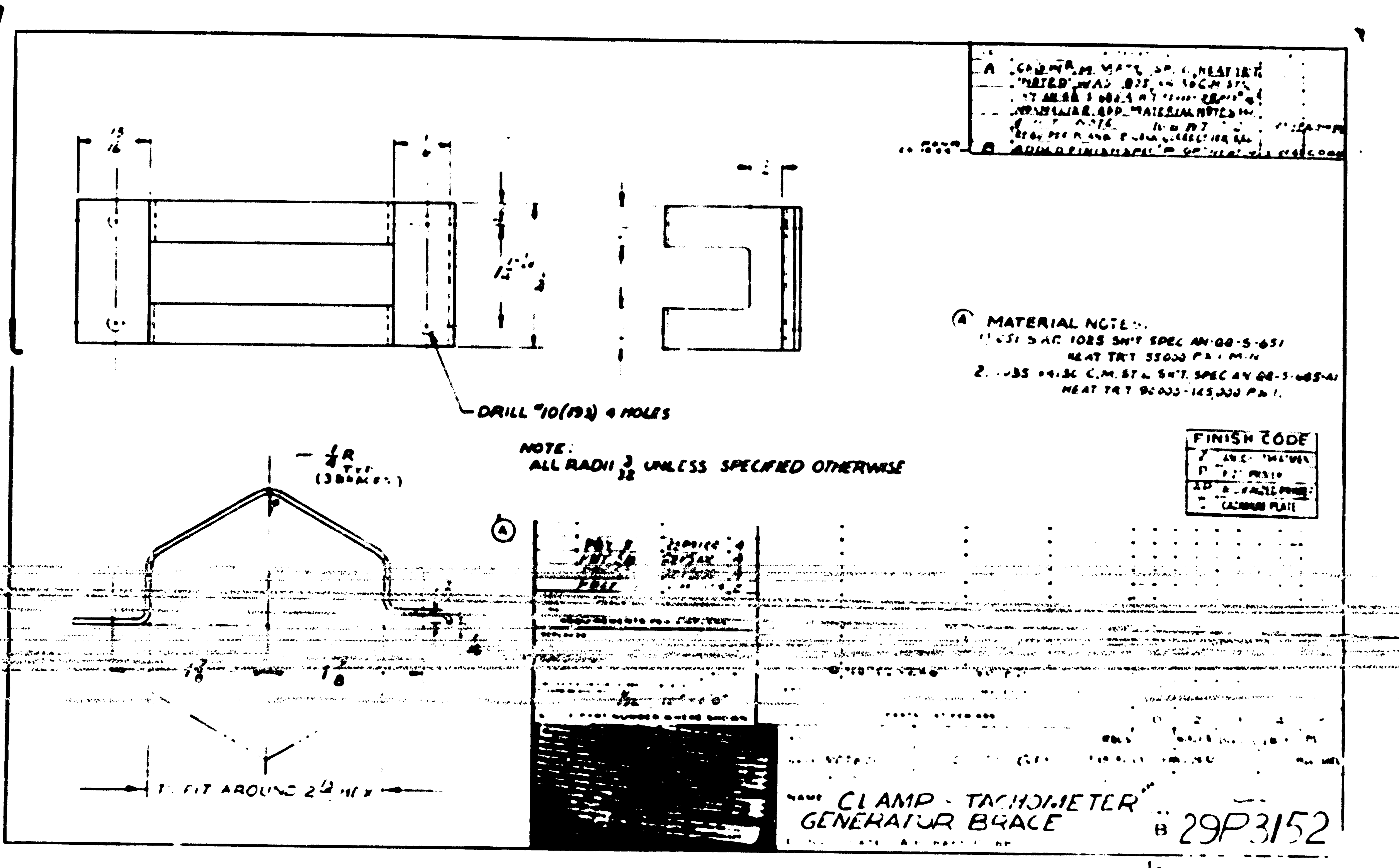
CONS ATED
AIRCRAFT CORP

B


FILE
NAME
B


-2
NAME
B


19 DIA
HOLE



MATERIAL NOTES
DRILL #10 (.193) 4 HOLES
NOTE:
ALL RADII 3/32 UNLESS SPECIFIED OTHERWISE
FINISH CODE
CADMIUM PLATE
TO FIT AROUND
CLAMP - TACHOMETER GENERATOR BRACE
B 29P3152

FUEL TANK ...

... FUEL PRESS ...

MANIFOLD PRESS

FUEL PRESS ...

FUEL GAGE VENT

SPEC ... ARMY

... NAVY

... WEATHERPROOF ...

FLEXIBLE TUBING ...

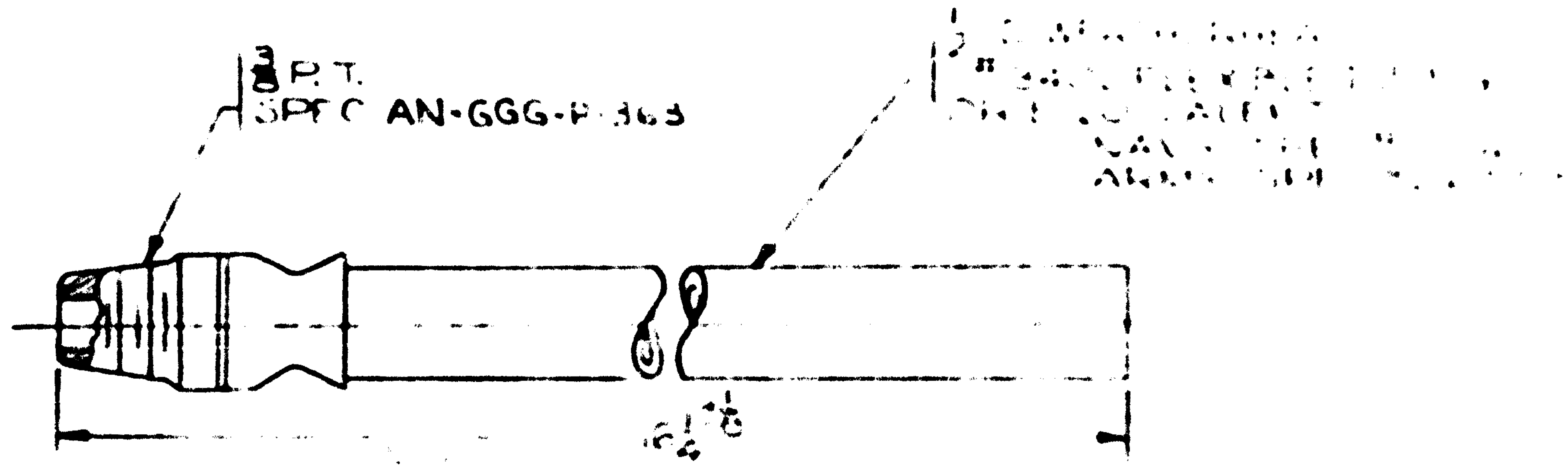
STAMP PART NUMBER WHERE ...

... FILE

NAME

CONSOLIDATED AIRCRAFT CORP

B



NOTES:

1. HOSE & FITTING TO BE RESISTANT TO AROMATIC FUELS
2. FOR SPARES OF 32P050 ON B24D ...
3. LB30 SAME AS B24D
4. ALL FITTINGS ...

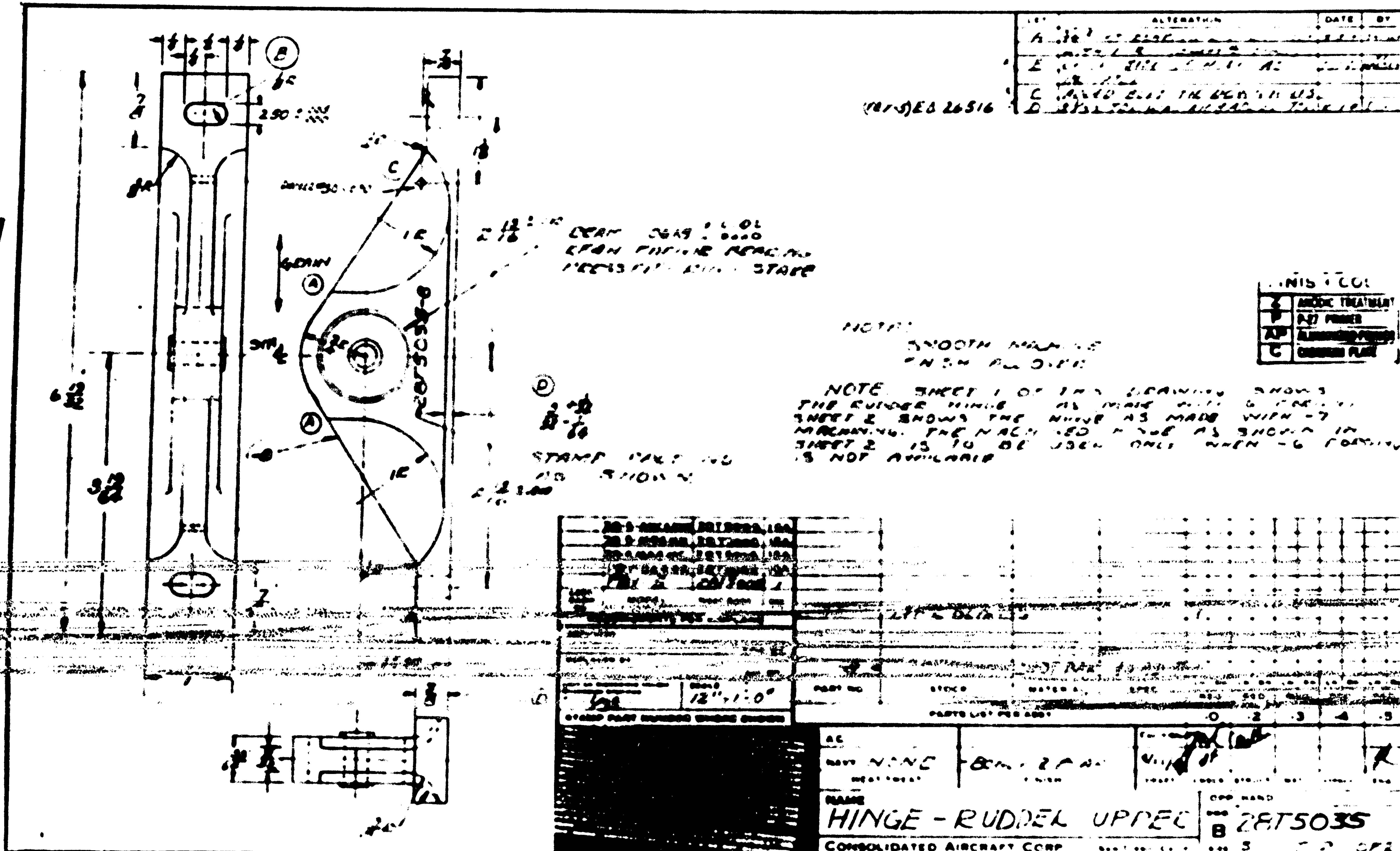
FILE

CONSOLIDATED AIRCRAFT CORP.

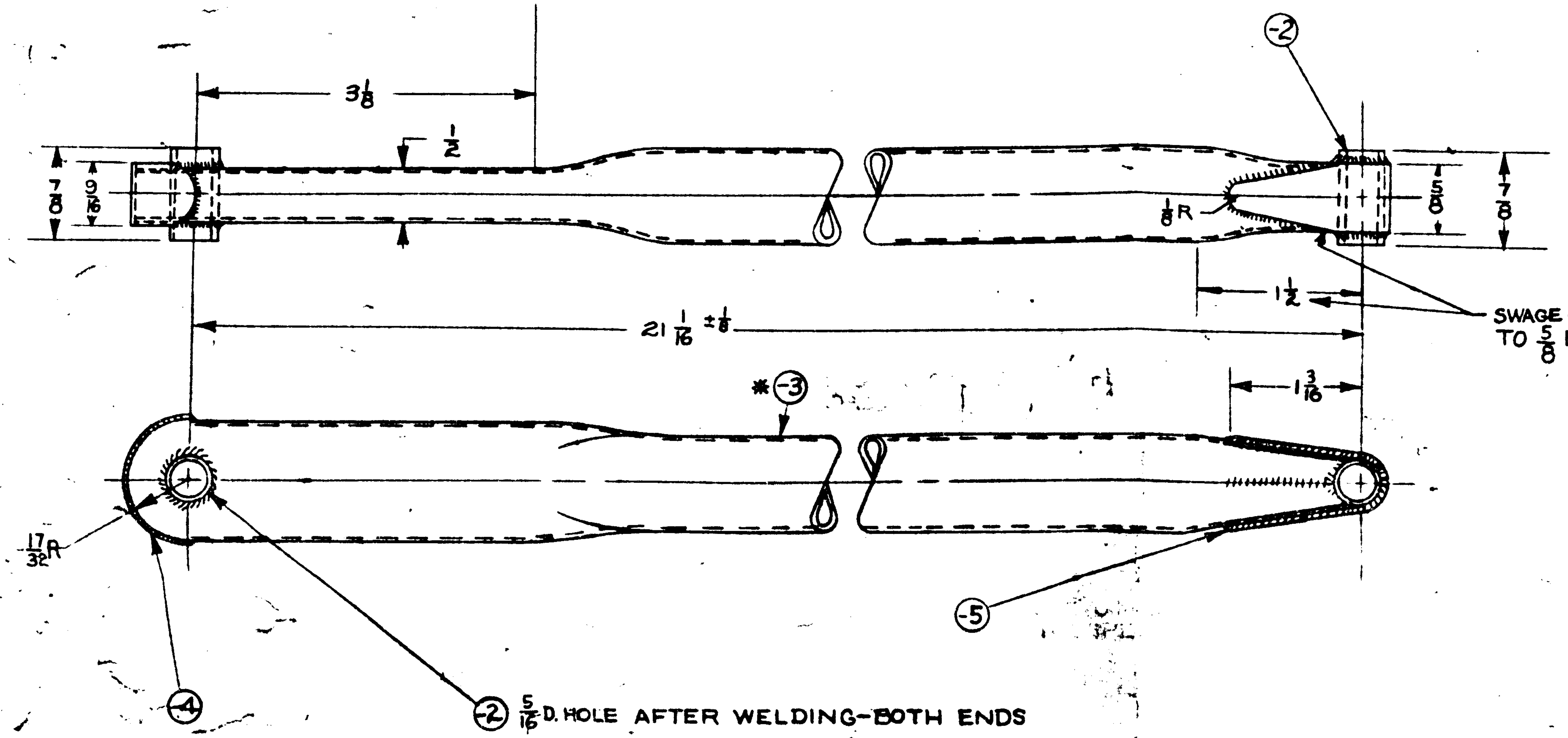
FILE

NAME

B


NOTE
STAMP PART NO AS SHOWN
ANODIC TREATMENT
12" = 1'-0"
NONE
HINGE - RUDDER UPPER
28T5035
CONSOLIDATED AIRCRAFT CORP

LET	ALTERATION	DATE	BY
A	TRACED	6-9-43	[illegible]



*NOTE.

ALTERNATE MATERIALS FOR -3
CHROM-MOLY WELDED TUBING
AN-T-3, TYPE I, COND. N
CHROME-MOLY SEAMLESS TUBING
AN-WW-T-850, COND. N

FINISH CODE.	
Z	ANODIC TREATMENT
P	P-27 PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
-0	PBY-3	[illegible]	2
-0	XPBY-3	28A1063-4	2
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
-0	PBY-2	28A1063-4	2
[illegible]	[illegible]	[illegible]	[illegible]
-0	[illegible]	28A1063	4
-0	28-5AMC	28A1063	4
-0	28-5MN	28A1063	4
-0	28-5ME	28A1063	4
-0	28-5MC	28A1063	4
-0	28-5MA	28A1063	4
-0	PBY-5A	28A1063	4
-0	PBY-5	28A1063	4

REQUIREMENTS PER AIRPLANE

REPLACES 28A1058 OF 5-12-36 — CALC. WT.
REPLACED BY — — ACT. WT.
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 12" = 1'0"
STAMP PART NUMBER WHERE SHOWN

	PART No.	STOCK	MATERIAL	SPEC.	-0 REQ.
	-5	.037 X 3/4 X 3 1/2	C.M. SHEET	47S14	1
	-4	.037 X 11/16 X 2 1/16	C.M. SHEET	47S14	1
*	-3	7/8 X .035 X 22	C.M. TUBE	44T18	1
	-2	9/16 X .065 X 1	C.M. TUBE	44T18	2

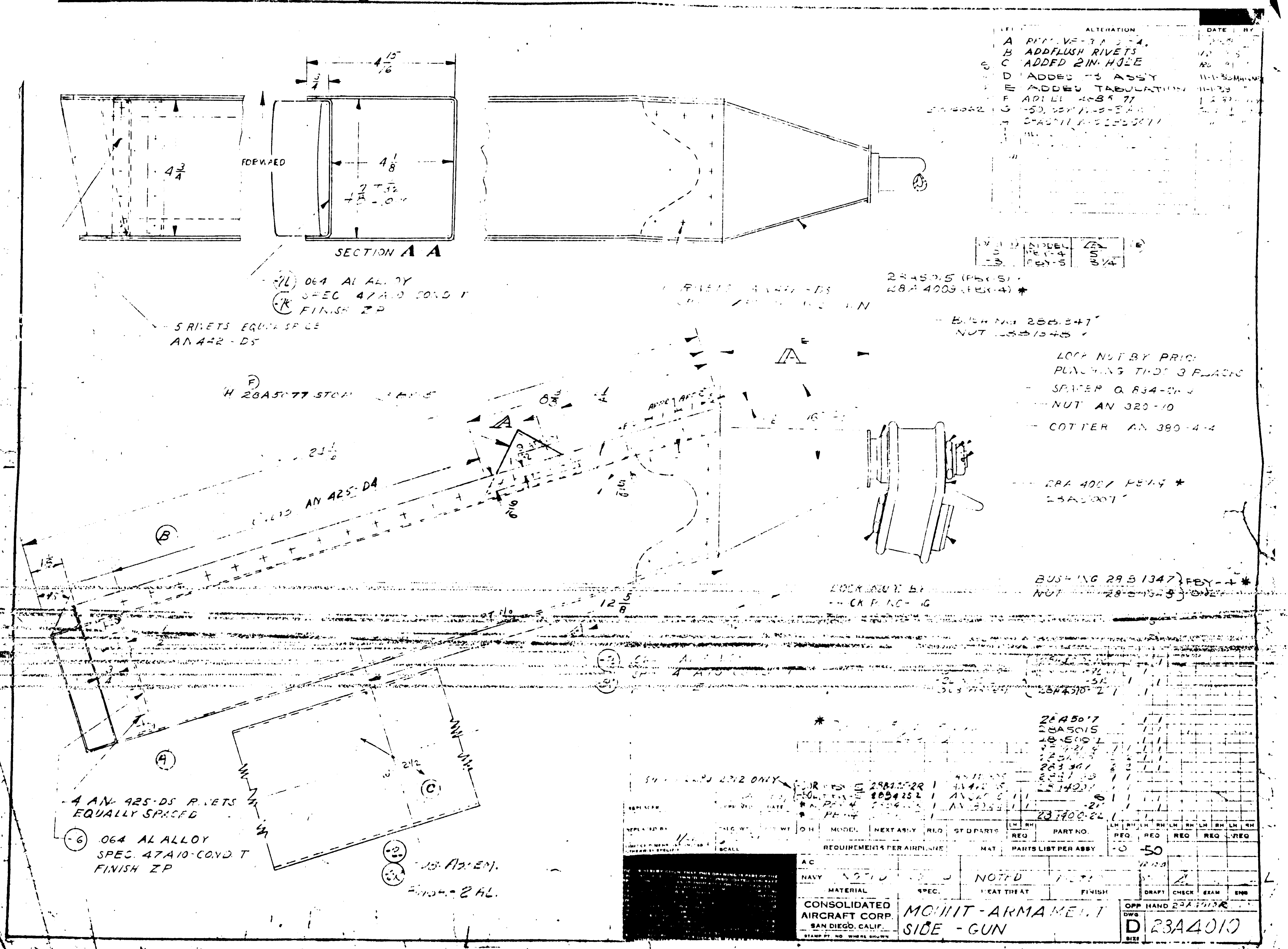
PARTS LIST PER ASSY.

A C		DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.
NAVY NORMALIZE	HRO-P-2GP	5-12-36	12-5-36			12-1-36	[illegible]
HEAT TREAT	FINISH						

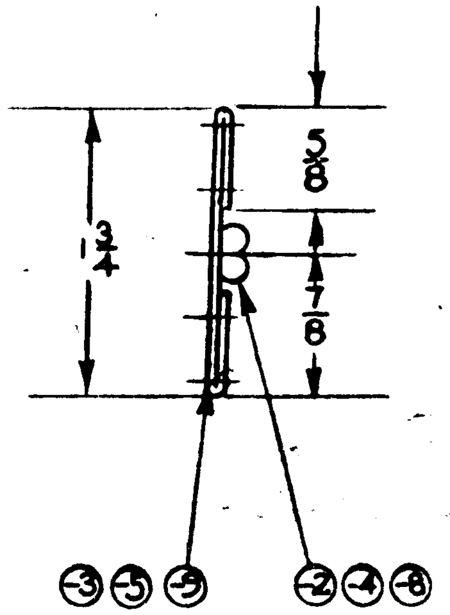
NAME TUBE-ARM.-BOMB LOADING-PLATFORM-BRACE

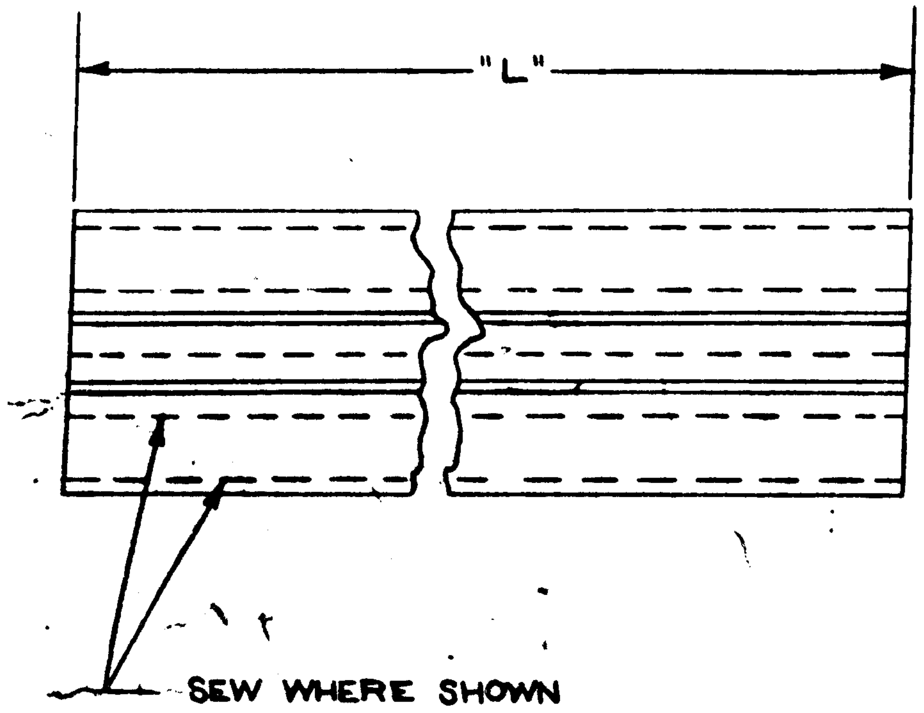
OPP. HAND — DWG. SIZE D — 28A1058

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.


ALTERATION
DATE
BY
A REMOVE
B ADD FLUSH RIVETS
C ADDED 2 IN. HOLE
D ADDED ASSY
E ADDED TABULATION
FORWARD
SECTION A A
.064 AL ALLOY
SPEC. 47A10 COND. T
FINISH ZP
5 RIVETS EQUALLY SPACED
AN 442 - D5
28A5015 (PBY-5)
28A4009 (PBY-4) *
BUSHING 28B347
LOCK NUT BY PRICK
PUNCHING THDS 3 PLACES
SPACER Q 834-
NUT AN 320-10
COTTER AN 380-4-4
AN 425-D4
12 5/8
4 AN-425-D5 RIVETS
EQUALLY SPACED
.064 AL ALLOY
SPEC. 47A10-COND. T
FINISH ZP
SUB ASSEM.
FINISH - 2 AL.
28A5015
MODEL
NEXT ASSY
STD PARTS
PART NO.
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY
MATERIAL
SPEC.
HEAT TREAT
FINISH
NOTED
CONSOLIDATED
AIRCRAFT CORP.
SAN DIEGO, CALIF.
MOUNT - ARMAMENT
SIDE - GUN
D
23A4010

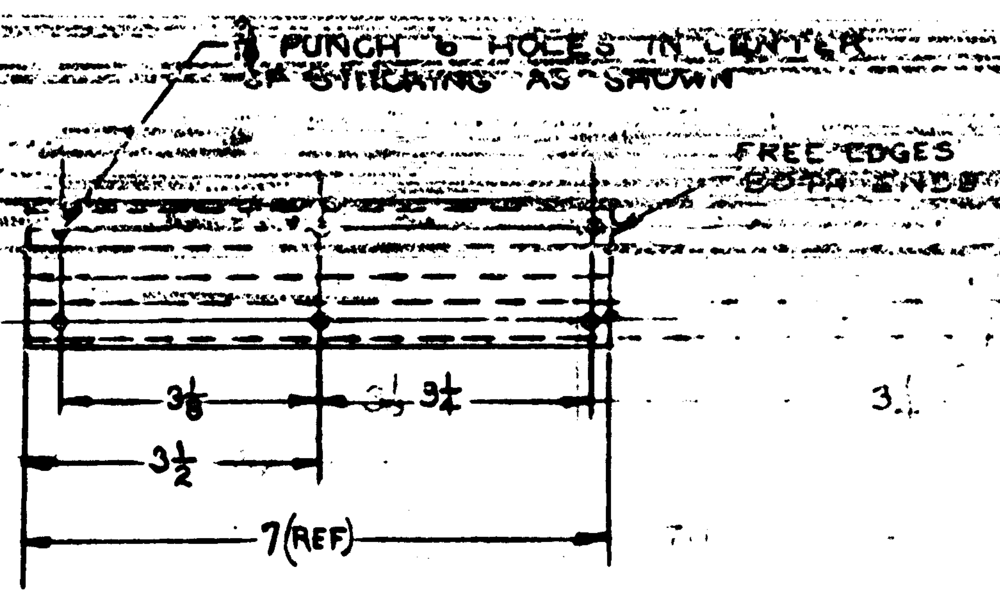
LET	ALTERATION	DATE	BY
E	TRACED	6-5-43	SIMPSON





DASH ASS'Y	L
-0	105
-6	7
-7	16 1/2

72 ℄ ON



-6 ASS'Y
SCALE 6"=1'-0"

1. NOTE

MATERIAL FOR -3, -5 & -9
ARTIFICIAL LEATHER
FEDERAL SPEC. E-KK-L-136
TYPE 3, CLASS B, BLACK.

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
-7	LB-30	32F3298	1
-7	B24 E	32F3298	1
-7	B24-D	32F3298	1
-6	28-5AMN	28F5253	2
-6	28-5AMC	28F5253	2
-6	[illegible]	[illegible]	2
[illegible]	[illegible]	[illegible]	[illegible]
-6	28-5MC	28F5253	2
-6	28-5MA	28F5253	2
-6	PBY-5B	[illegible]	2
-6	[illegible]	[illegible]	[illegible]
-6	PBY-5	28F5253	2
-0	28-5AMN	28A4006	2
-0	28-5AMC	28A4006	2
-0	28-5MN	28A4006	2
-0	28-5ME	28A4006	2
-0	28-5MC	28A4006	2
-0	28-5MA	28A4006	2
-0	PBY-5B	28A4006	2
-0	PBY-5A	28A4006	2
-0	PBY-5	28A4006	2

REQUIREMENTS PER AIRPLANE

REPLACES 28A4082 OF 4-3-39 — CALC. WT.
REPLACED BY — ACT. WT.
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/16 — SCALE 12"=1'0" & NOTED
STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 REQ.	-6 REQ.	-7 REQ.
-9	3 1/4 x 16 1/2	NOTED	NOTED			1
-8	1/4 DIA. x 16 1/2	SOFT WELT CORD				1
-5	3 1/4 x 7	NOTED	NOTED		1	
-4	1/4 DIA. x 7	SOFT WELT CORD			1	
-3	3 1/4 x 105	NOTED	NOTED	1		
-2	1/4 DIA x 105	SOFT WELT CORD		1		

PARTS LIST PER ASSY.

ENG. FILE

AC		4-3-39				4-3-39	
NAVY NONE	NONE	ZUCK	[illegible]		BMN	[illegible]	R
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

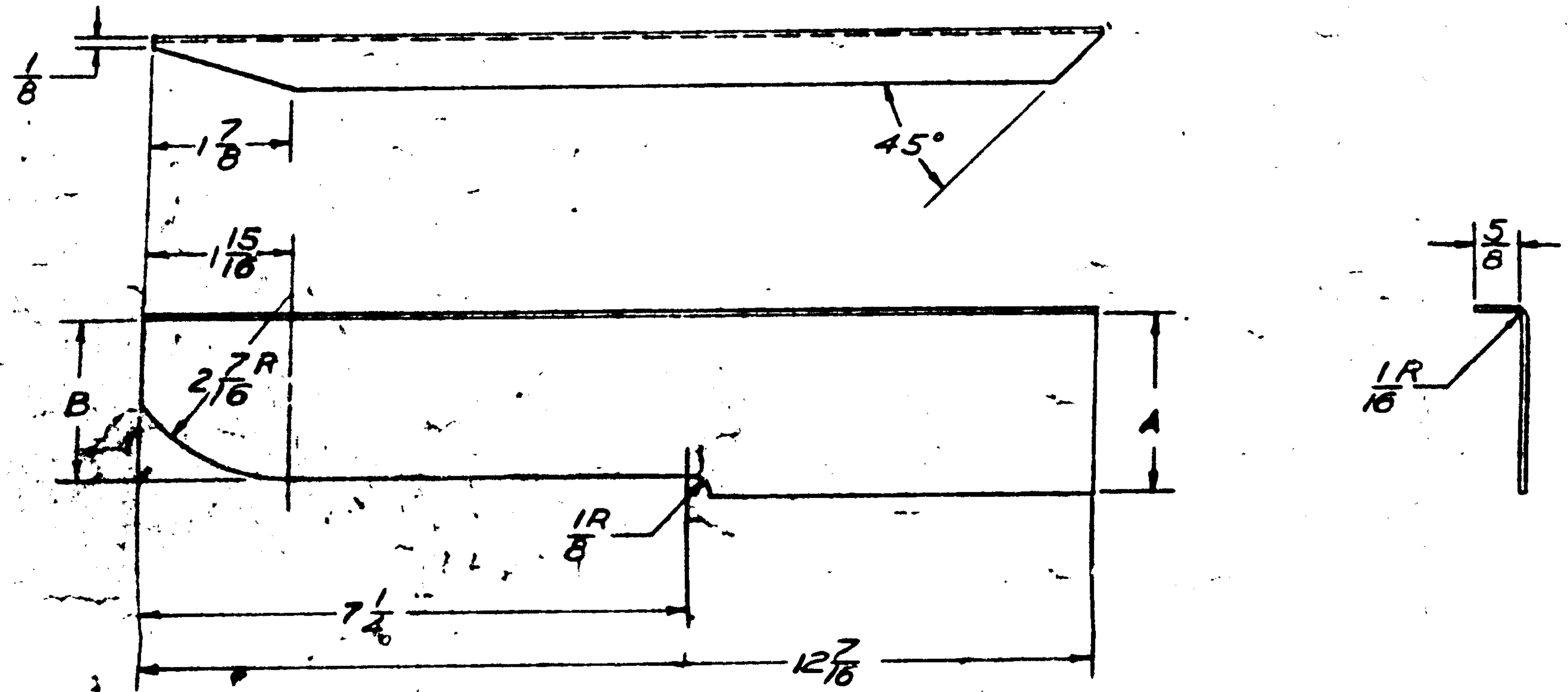
NAME WELT-ARM-WAIST GUNS HEAD PROTECTOR

OPP. HAND

DWG. SIZE D 28A4082

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

LET	ALTERATION	DATE	BY
E	TRACED NO WT. CHG.	10-6-43	CLARK



DASH NO.	DIM. A	DIM. B	WHERE USED PBY-5	WHERE USED PBY-5A & 28-5AMC
28B1503	3 3/8	2 1/64	L.H. AFT	L.H. AFT
-1(R.H.)	2 7/8	2 1/64	R.H. AFT	R.H. AFT
-2(L.H.)	2 7/16	2 17/64	L.H. FWD.	R.H. FWD.
-3(R.H.)	2 7/16	2 17/64	L.H. FWD.	L.H. FWD.

C# 70496-77713-88476, C. NOa(s)464 #170310

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
-3	PBY-5A	28B1502	1
-2	PBY-5A	28B1502	
-0	PBY-5A	28B1502	1
-1	PBY-5-5A	28B1502	2EA
-2	PBY-5A	28B1502	2
-3	PBY-5A	28B1502	2
-3	PBY-5-5B	28B1502	2EA
-2-3	28-5AMC & AMN	28B1502	2EA
-0/1	28-5ME; MN	28B1502	2EA
-0/1	28-5MAC; MC	28B1502	2EA
-1	PBY-1-2-3E-4	28B1502	2EA
	PBY-1-2-3E-4	28B1502	2EA

REQUIREMENTS PER AIRPLANE

REPLACES 28B1503 of 12-5-36 — CALC. WT. 23

REPLACED BY — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 6" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC
-3	.064 x 3 3/16 x 12 9/16	AL. AL. SHT.	QQ-A-355-T
-2	.064 x 3 3/16 x 12 9/16	AL. AL. SHT.	QQ-A-355-T
-1	.064 x 3 1/8 x 12 9/16	AL. AL. SHT.	QQ-A-355-T
28B1503	.064 x 3 1/8 x 12 9/16	AL. AL. SHT.	QQ-A-355-T

PARTS LIST PER ASSY. (LH RH REQ. columns)

ENG. FILE

AC		L.O.C.		MILLER	L.C.W.	
NAVY	NONE	10-6-43			12-5-36	
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT.	MAT.	APPRO. / ENG.

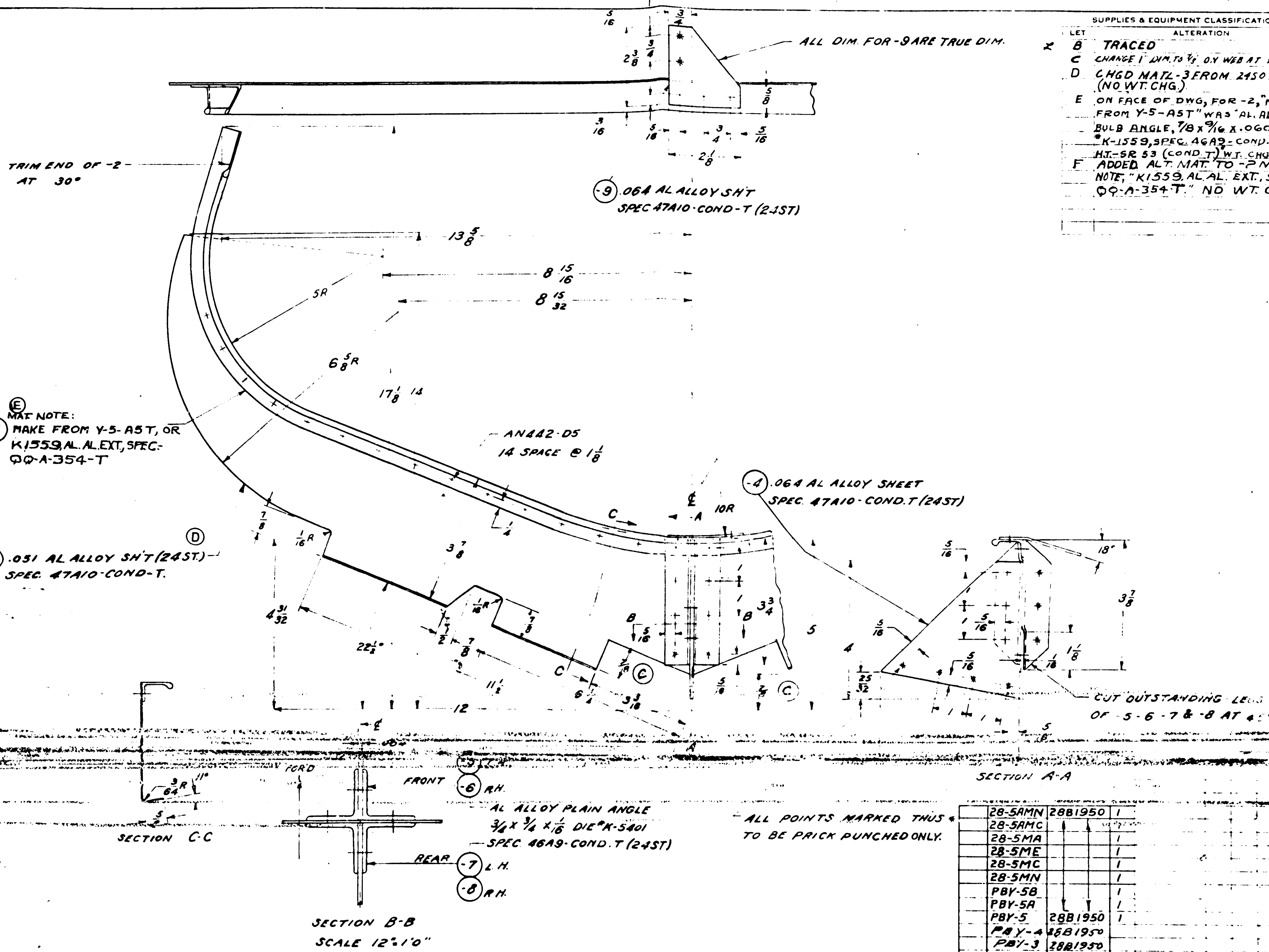
NAME REINFORCEMENT—HULL—LOWER ANGLE

OPP. HAND 28B1503-1

DWG SIZE D — 28B1503

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

R. 5081987



SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE BY
B	TRACED	10-8-36 CCB
C	CHANGE 1" DIM. TO 1/2 ON WEB AT ℄	1-14-38
D	CHGD MATL -3 FROM 24SO TO 24ST (NO WT. CHG.)	3-7-42 HAMMES
E	ON FACE OF DWG, FOR -2, "MAKE FROM Y-5-A5T" WAS "AL. ALLOY BULB ANGLE, 7/8 x 9/16 x .060 DIE *K-1559, SPEC. 46A9-COND. A (24SO) HT.-SR 53 (COND T) WT. CHG. NEG.	4-8-43
F	ADDED ALT. MAT. TO -2 MAT. NOTE; "K1559, AL. AL. EXT., SPEC. QQ-A-354-T." NO WT. CHG.	10-15-43 CRAIG

O.H.	MODEL	NEXT ASSY	REQ.	STD PARTS	LH	RH	PART NO.	REQ.
	28-5AMN	28B1950	1				-9	1
	28-5AMC		1				-8	1
	28-5MA		1				-7	1
	28-5ME		1				-6	1
	28-5MC		1				-5	1
	28-5MN		1				-4	1
	PBY-5B		1				28B1567-3	1
	PBY-5A		1				28B1567-2	1
	PBY-5	28B1950	1					
	PBY-4	28B1950						
	PBY-3	28B1950						
	PBY-2	28B1950						
	PBY-1	28B1950		AN442-D5				

REQUIREMENTS PER AIRPLANE — PARTS LIST PER ASSY.

REPLACES
REPLACED BY
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED

ENG. FILE

APPROVED 10-13-36 DATE
CALC WT. / ACT WT.
SCALE 6"=1'0" / 12"=1'0"
NAVY NOTED

MATERIAL	SPEC.	HEAT TREAT	FINISH
NOTED	NOTED	NOTED	NONE

DRAFT 12338 · CHECK 10-9-36 · EXAM · ENG.

CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.

STAMP PT. NO. WHERE SHOWN

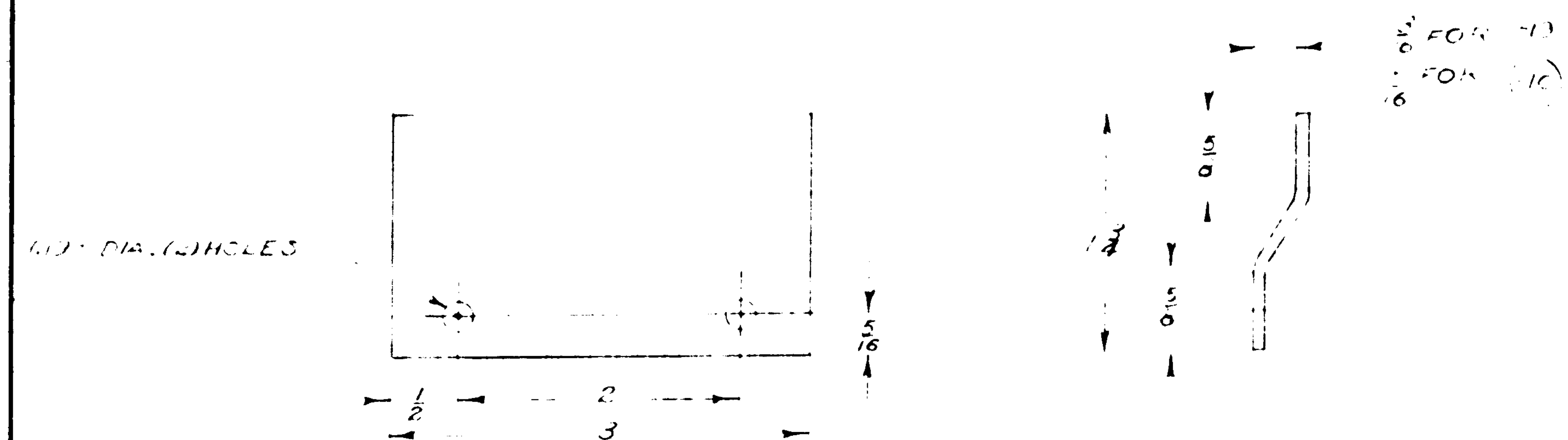
NAME: TRUSS-HULL-BELTFRAME #9.5

OPP HAND

DWG. SIZE D 28B1567

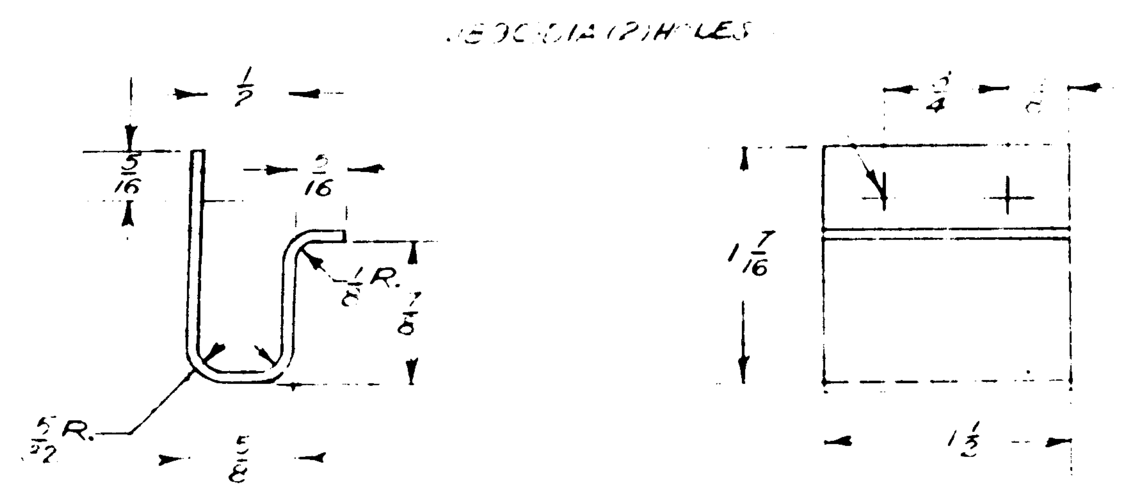
28B1567

LTR	ALTERATION	DATE	BY
D	TRACED. NO WT CHG.	[illegible]	[illegible]

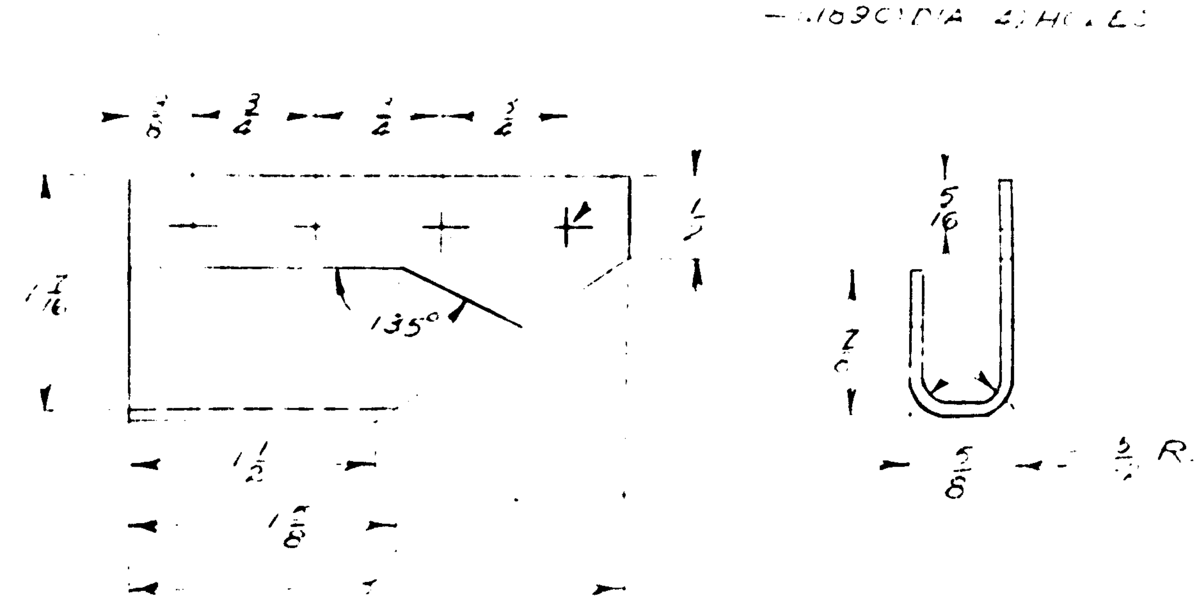


DETAIL -10 & 19

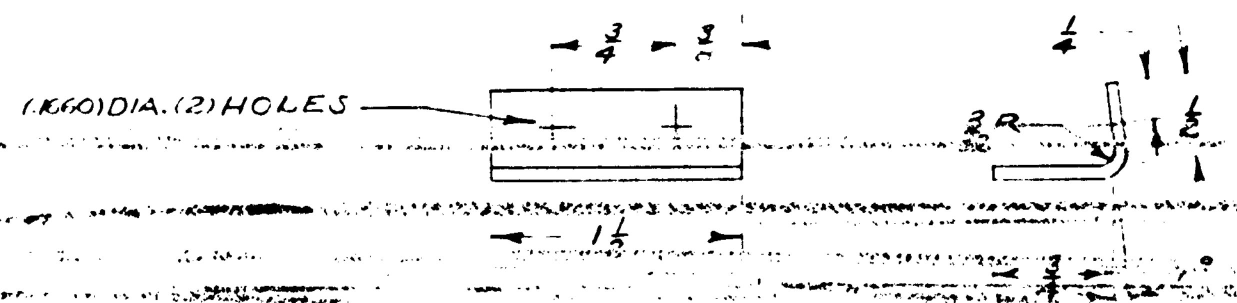
NOTE: -10 & -19 ARE IDENTICAL EXCEPT FOR DIMS. NOTED



DETAIL -7



DETAIL -9



DETAIL -8

NOTE:
1-GOV'T FURN. ON PBY-5A C.70496

DASH NO.	WT.
-19	.04
-10	.04
-9L	.0565
-8	.0120
-7	.0312

ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ.
-19	PBY-5	2EL[illegible]	2
-19	PBY-5A		[illegible]
-19	PBY-5B		
-10	PBY-5	HULL 445 & ON	
-10	PBY-5A	HULL 445 & ON	2
-10	PBY-5B	HULL 445 & ON	2
-9L/R	PBY-5		
-9L/R	PBY-5A		
-9L/R	PBY-5B		
-8	PBY-5		4
-8	PBY-5A		4
-8	PBY-5B		4
-7	PBY-5		2
-7	PBY-5A		2
-7	PBY-5B	28U5069	2

REQUIREMENTS PER AIRPLANE

REPLACES 2B05618 12-26-40 — NOTED CALC WT.

REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 12" = 1'0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.
-19	.070x1 7/8x3 1/8	ALCLAD	QQ-A-362-T
-10	.070x1 7/8x3 1/8	ALCLAD	QQ-A-362-T
-9L/R	.064x3 1/8x5 5/16	ALCLAD	QQ-A-362-T
-8	.064x1 5/8x1 3/8	ALCLAD	QQ-A-362-T
-7	.064x1 5/8x3 3/8	ALCLAD	QQ-A-362-T

PARTS LIST PER ASSY. — LH/RH REQ. -0, -2, -3, -4, -5

AC		
MAT'L	Z-P-GP	
HEAT TREAT	FINISH	

DRAFT	CHECK	STRUCT	MAT	APPROV	ENG
UNGER 12-26-40	CHIPPENDALE LOC	GAUGH	J.F.K. BAIN FAI	[illegible]	K

NAME BRACKET-ARMOR PLATE-REAR SPAR

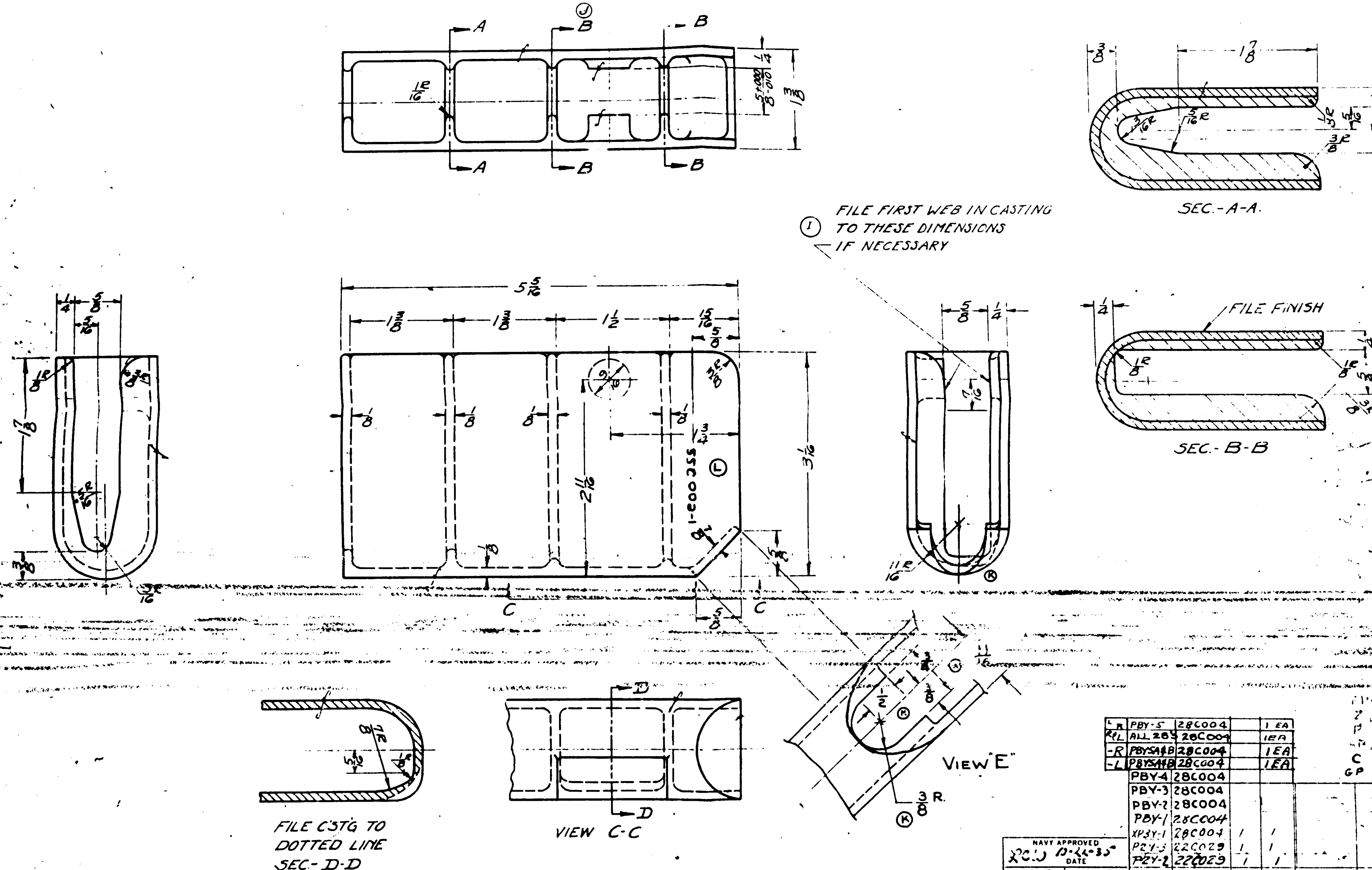
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

OPP HAND

DWG SIZE D — 28B5618

OPPOSITE HAND 22C009-1

DRAWING APPLIES ON:				DETAIL PARTS PER ASSEMBLY:			
AIRPLANE MODEL	ASSEMBLY NUMBER	NO. PER ASS'Y	NO. PER AIRPLANE	STANDARD PARTS	NO. REQ'D	PART NUMBER	NO. REQ'D
PZY-2	22C029	1	1				
PZY-3	22C029	1	1				
XP3Y-1	28C004	1	1				
PBY-1	28C004						
PBY-2	28C004						
PBY-3	28C004						
PBY-4	28C004						



FINISH CODE
Z ANODIC TREATMENT
P [illegible] PRIMER
[illegible] ALUMINIZED PRIMER
C [illegible] MIUM PLATE
GP GREEN PRIME

	AIRPLANE MODEL	ASSEMBLY NUMBER	NO. PER ASS'Y	NO. PER AIRPLANE	STANDARD PARTS	NO. REQ'D	PART NUMBER	NO. REQ'D
L R	PBY-5	28C004		1 EA				
R L	ALL 28	28C004		1 EA				
-R	PBY5A&B	28C004		1 EA				
-L	PBY5A&B	28C004		1 EA				
	PBY-4	28C004						
	PBY-3	28C004						
	PBY-2	28C004						
	PBY-1	28C004						
	XP3Y-1	28C004	1	1				
	PZY-3	22C029	1	1				
	PZY-2	22C029	1	1				

NAVY APPROVED [illegible] 12-24-35 DATE

CALC. WT. .61# ACT. WT. .66#

SCALE 1/1 — DRAWING APPLIES ON: — DETAIL PARTS PER ASSEMBLY:

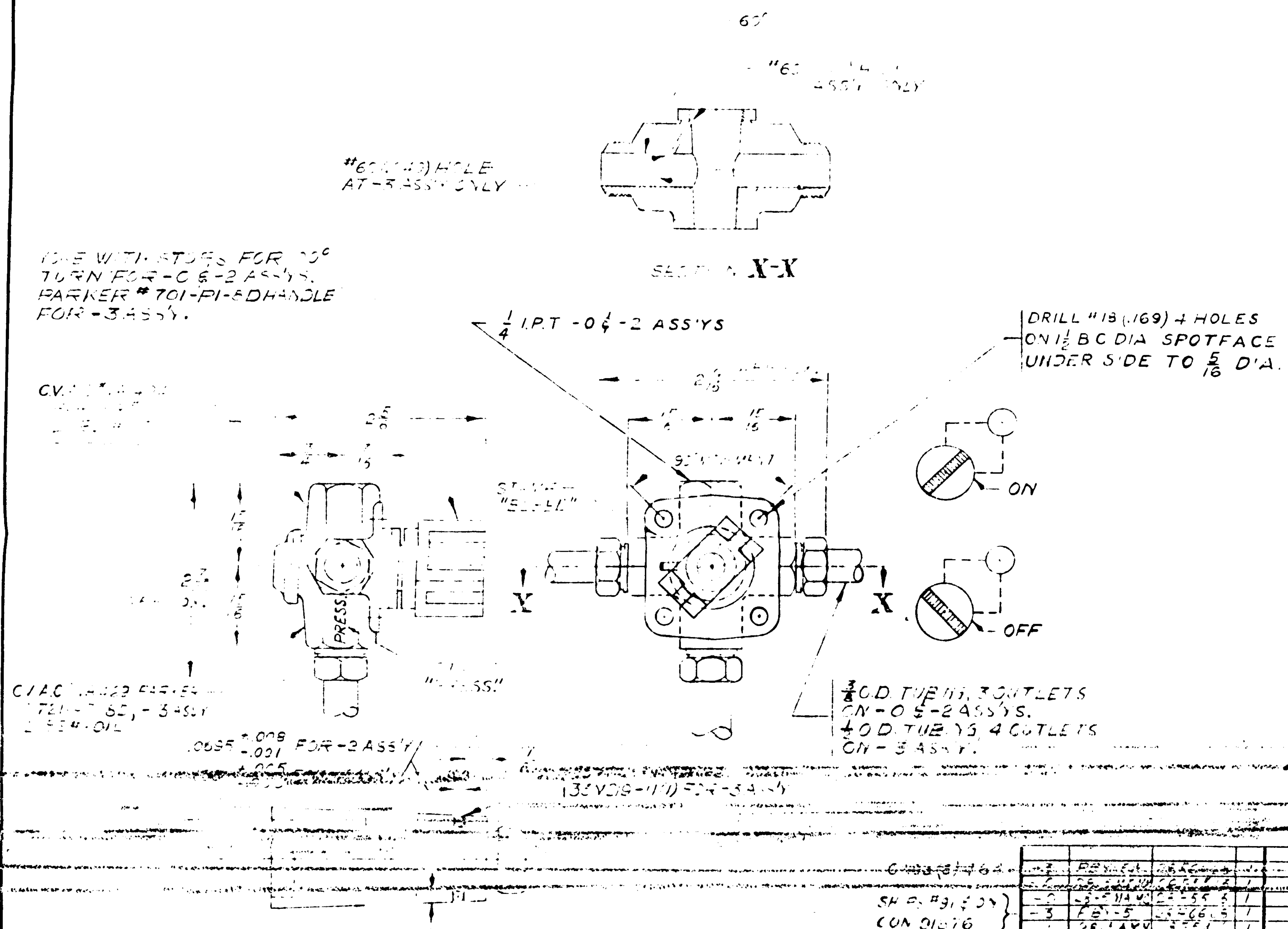
MATERIAL	ALUM. ALLOY C'ST'G	DRAFTSMAN	BOI	8-7-31
SPEC'S. NAVY NO.:	46A1.	STRENGTH & W'T. EXAM.		
HEAT TREAT	NAF 5A-8A-CL4	CHECKED		
FINISH	Z-AGP	APPR'VD. & REL'S'D.		

BRACKET-CONTROL-YOKE-LOWER PULLEY

CONSOLIDATED AIRCRAFT CORPN. DR'W'G. No. 22C009

LET.	CHANGED	DATE	CH. BY
L	ADDED 5/8 DIM. & PART NO. NO WT. CHG.	5-27-43	WELLS
K	ADDED CUTOUT VIEW E	1-21-38	WEIR
J	B-B WAS A-A	10-14-36	[illegible]
I	NOTE ADDED	12-12-35	JAFFE
H	PBY-1 ADDED	10-22-35	[illegible]
G	TRACED UP TO DATE	3-29-35	TUTTLE

EO. A93641



NOTES:
(1) PARKER # 7-0-6-6D IS IDENTICAL TO 28F1208 & 28F1208-2 IS MADE FROM PARKER # 7-0-6-6D BY ADDING SLOT & 33V219-8. 28F1208-3 IS MADE FROM PARKER # 721-4T-6D BY ADDING SLOT & 33V219-11 PACKING AS SHOWN IN VIEW A-A.
(2) ALL DIMS GIVEN PERTAIN TO -0 & -2 ASS'YS. -3 ASSY DIM. NOT AVAILABLE
(3) VALVE TO WITHSTAND [illegible] # WORKING PRESSURE OF MINERAL OIL

LET	ALTERATION	DATE	BY
N	TRACED [illegible]	[illegible]	[illegible]

ASSY DASH No.	MODEL	NEXT ASSY.	REQ
-3	PB4Y-1	[illegible]	1
[illegible]	[illegible]	[illegible]	1
-0	[illegible]	[illegible]	1
-3	PBY-5	[illegible]	1
[illegible]	28-5AYY	[illegible]	1
-2	PBY-5B	[illegible]	1
2	PBY-5	[illegible]	1
-2	PBY-5A	28F54-2	1
-0	28-5AMC	28F55-3	1

REQUIREMENTS PER AIRPLANE

REPLACES 28F1208 OF 3-19-42 — CALC WT. .46

SCALE 12"=1'-0" & NOTED

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.
CVAC#VA469	PARKER # 721-4T-6D	[illegible]	
CVAC#VA404	PARKER # 7-0-6-6D	[illegible]	
33V219-11			
33V219-8			

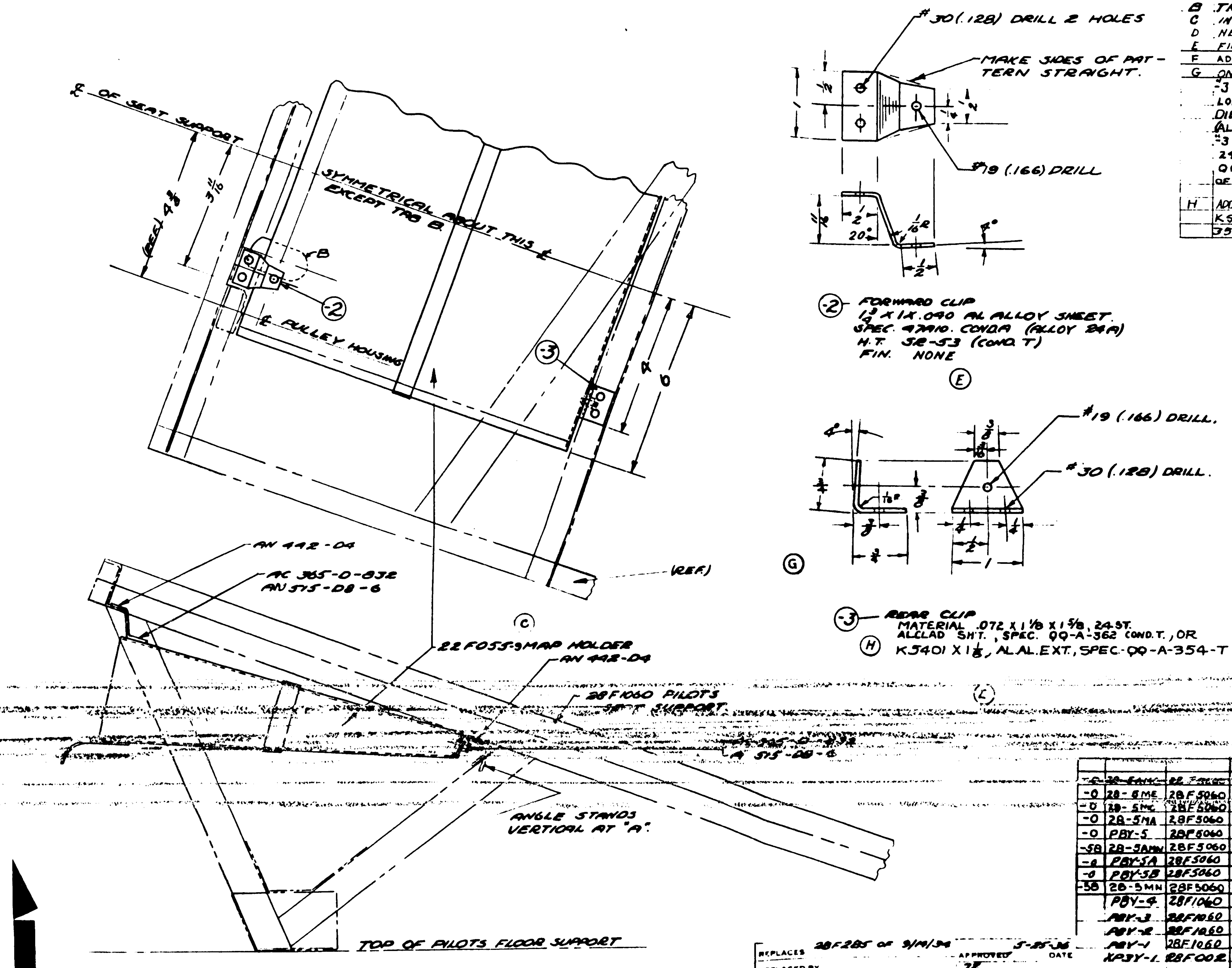
PARTS LIST PER ASSY. — -0, -2, -3, -4, -5

DRAFT	CHECK	STRUCT	MAT	APPROV	ENG
3-19-42 CASSIE	GERBER				LIVERS
REED 3-21-42			NEG		WOLL

NAME: VALVE - FURN - GYRO. PILOT - 4 WAY - OIL

DWG SIZE D — 28F1208

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . . SAN DIEGO, CALIF.



SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
B	TRACED	3-24-37	[illegible]
C	IN B/M 22F055-9 WAS 22F055	9-30-37	[illegible]
D	NEXT ASS'Y. WAS 28F1002	1-14-38	WENMAKEN
E	FINISH -2 & -3 WAS Z-P-2AKV	"	"
F	ADDED -58 ASS'Y FOR 28-5MN	1-29-41	LATIMER
G	ON FACE OF DWG. REPLACED -3 MATL. NOTE "3/4 X 3/4 X 1/16 X 1" LONG AL. ALLOY ANG. ALCOA DIE K-5401 SPEC. 46A9 COND. T (ALLOY 24T) FIN. NONE." WITH "-3 MATERIAL .072 X 1 1/8 X 1 5/8, 24 ST ALCLAD SH'T. SPEC. QQ-A-362 COND. T." IN DETAIL OF -3 ADDED DIMS. 3/4, 3/4 & 1/16R. WT. CHG. NEG.	4-30-43	NOBLE
H	ADDED ALT. TO -3 MAT. NOTE "OR K5401 X 1 1/8, AL.AL.EXT., SPEC. QQ-A-354-T" NO WT CHG	10-21-43	CRNG

E.O. 32940

REQ.	MODEL	NEXT ASSY	REQ.
-0	28-5MC	22F[illegible]	
-0	28-5ME	28F5060	1
-0	28-5MC	28F5060	1
-0	28-5MA	28F5060	1
-0	PBY-5	28F5060	1
-58	28-5AMN	28F5060	1
-0	PBY-5A	28F5060	1
-0	PBY-5B	28F5060	1
-58	28-5MN	28F5060	1
	PBY-4	28F1060	
	PBY-3	28F1060	
	PBY-2	28F1060	
	PBY-1	28F1060	
	XP3Y-1	28F002	

STD PARTS	LH	RH	PART NO	LH	RH
			22F055-58		1
AC 350-0832	4	4	-3	2	2
AN515-D8-6	4	4	28F285-2	2	2
AN442-D4	8	8	22F055-9	1	
	REQ-58				REQ-58

PARTS LIST PER ASSY

REPLACES 28F285 OF 9/14/34

REPLACED BY

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED

APPROVED 5-25-36 DATE

.72 CALC WT. ACT WT. O.H. MODEL NEXT ASSY REQ. STD PARTS MAT

SCALE 6" = 1'0" REQUIREMENTS PER AIRPLANE

NAVY

NOTED	NOTED	NOTED	NONE	5-20-36 [signature] PORTER 4-6-37 MILLER
MATERIAL	SPEC.	HEAT TREAT	FINISH	DRAFT CHECK LOAN ENG

CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.

STAMP PT. No. WHERE SHOWN

NAME **HOLDER - MAP. FURNISHINGS INSTAL.**

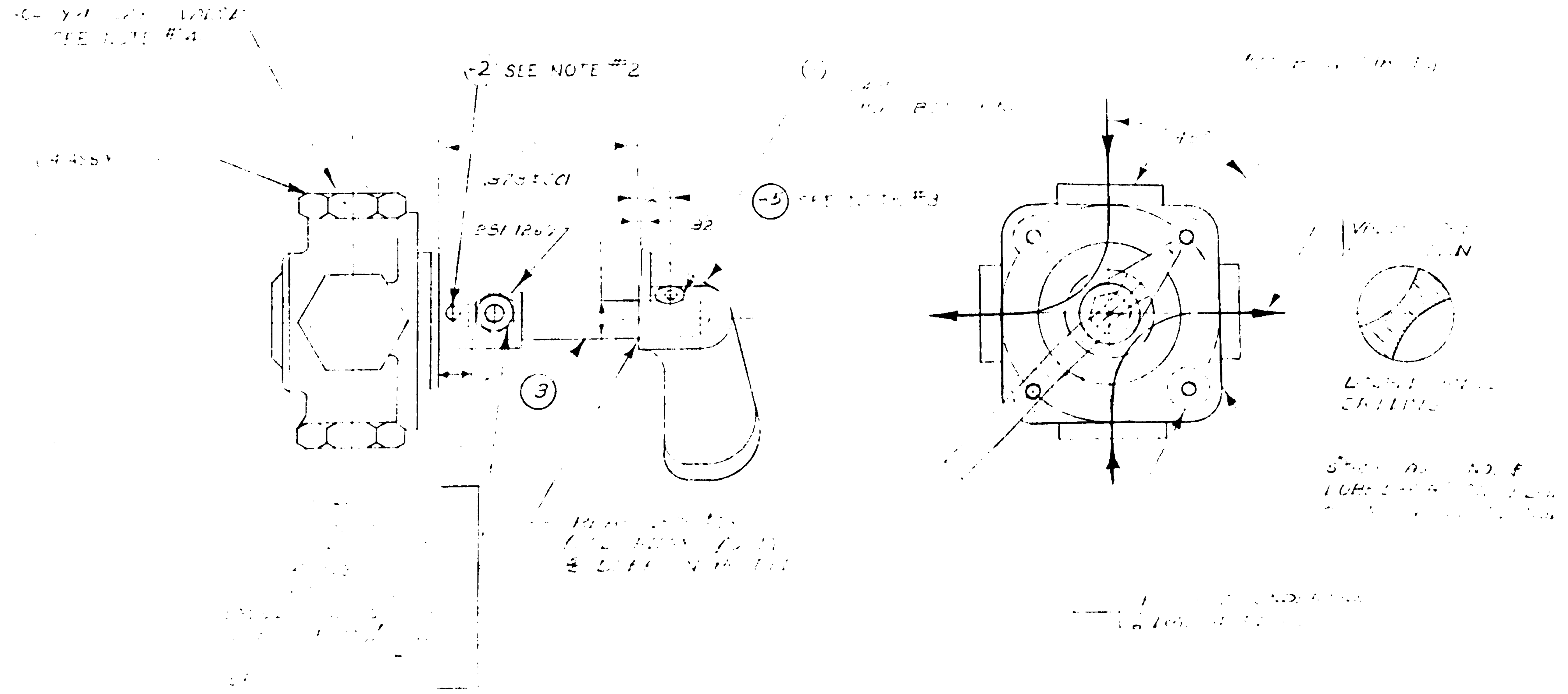
OPP HAND

DWG. D 28F285

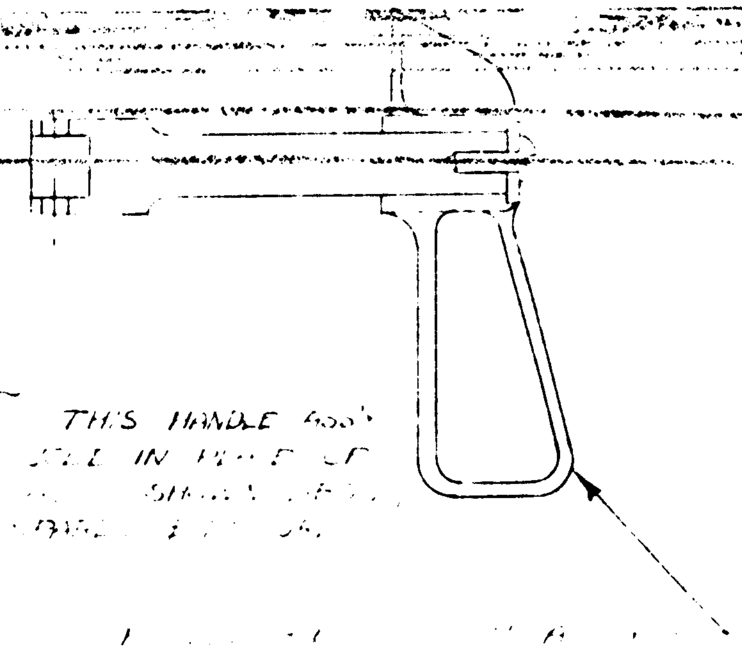
R

28F285

LET	ALTERATION	DATE	BY
V	TRAC'D		
W	AN125-D5		



NOTES
- DENOTES G.F.E.



NOTE ~ THIS HANDLE ...

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

REQUIREMENTS PER AIRPLANE

REPLACES 28F1270 10-31-56 .92 CALC. WT.

SCALE 12"-1'0"

STAMP PART NUMBER WHERE SHOWN

PARTS LIST PER ASSY.

NAME VALVE ASSY - TURN. - 4 WAY VACUUM

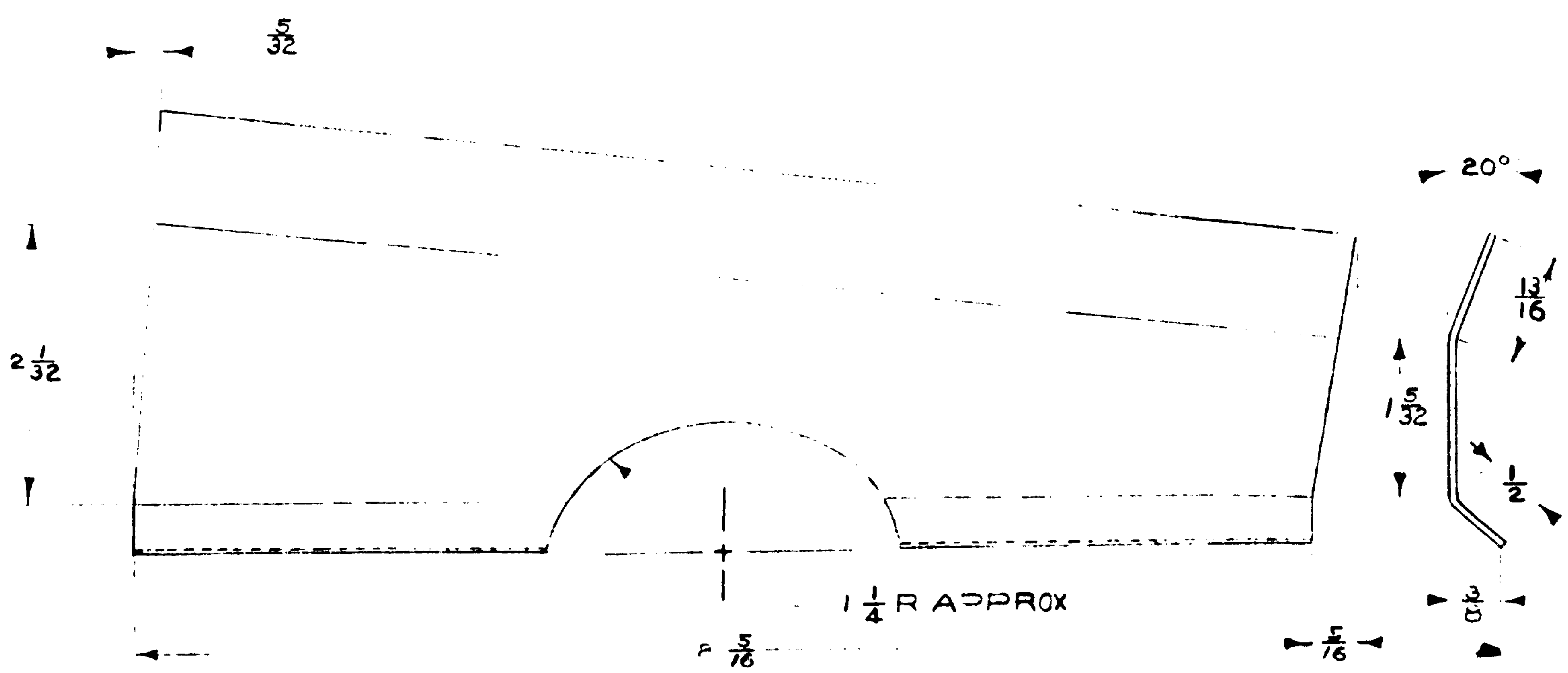
OPP. HAND NONE

DWG. SIZE D 28F1270

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

28F1270

LTR	ALTERATION	DATE	BY
F	TRACED NO WT. CHG.	10-15-43	



NOTE:

1/16 BEND RADII

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
	PBY-5A	28F1005	1
	PBY-5		1
	28-5AMN		1
	28-5AMC		1
	28-5MN		1
	28-5MC		1
	PBY-3&4		1EA.
	PBY-1&2	28F1005	1EA.

REQUIREMENTS PER AIRPLANE

REPLACES 28F1352 4-1-37 | CALC WT. .11

REPLACED BY | ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 | SCALE 12" = 1'0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.
-6	.040 X 3 1/2 X 8 3/4	AL. AL. SHT.	QQ-A-355-7

PARTS LIST PER ASSY.

REQ. -0	REQ. -2	REQ. -3	REQ. -4	REQ. -5

FINISH CODE

AC		DRAFT	CHECK	STRUCT	MAT	APPROV	ENG
NAVY	Z-F-2GP	RS. ANDERSON 7-28-36	C.N. 4-7-37 MILLER			L.C.W.	
HEAT TREAT	FINISH						

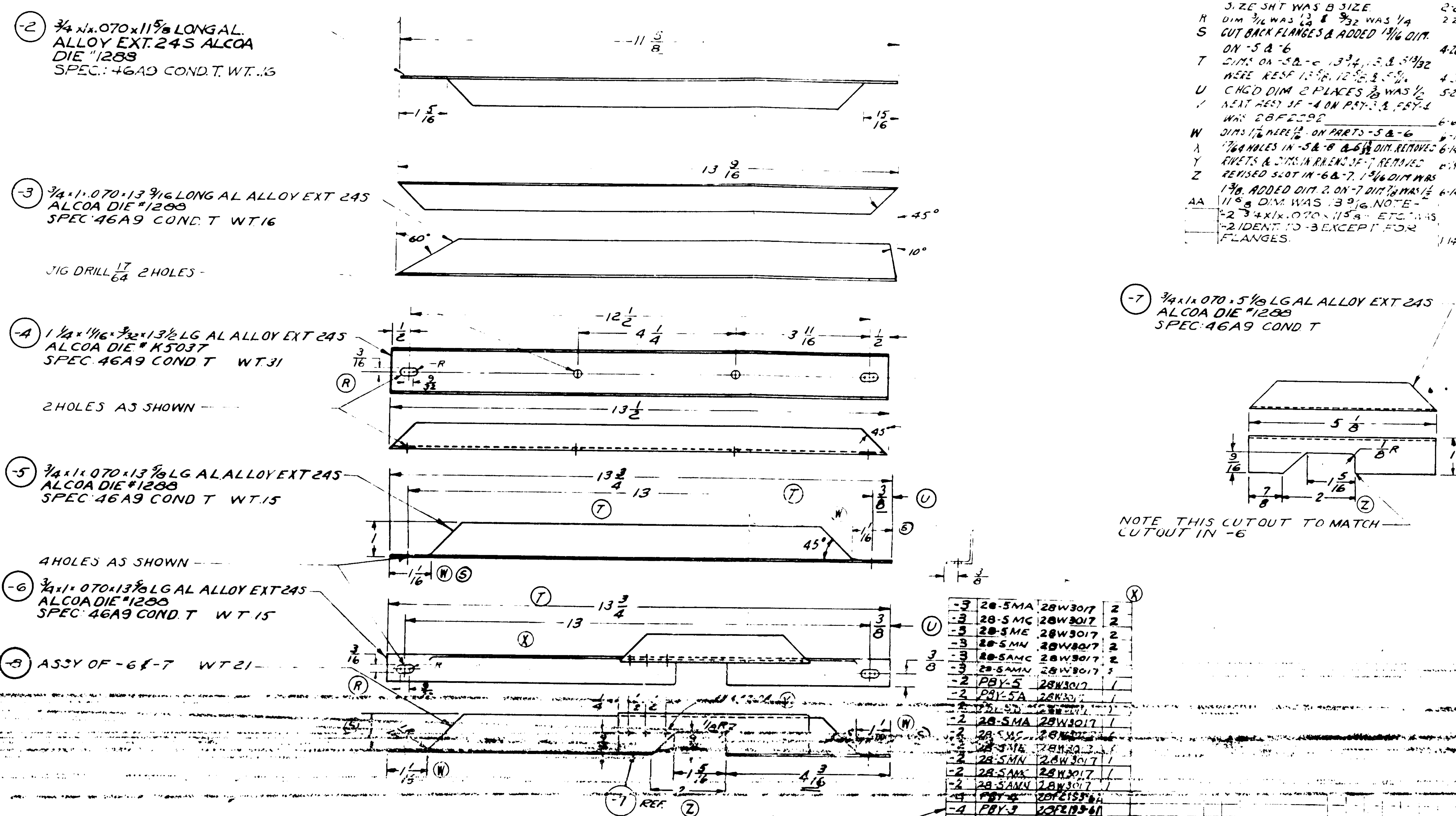
NAME SUPPORT-FURNISH BOMBERS SWITCH PANEL UPPER

OPP. HAND

DWG SIZE D 28F1352

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION SAN DIEGO, CALIF.

28F1352



SYM	ALTERATION	DATE	BY
Q	TRACED UP TO DATE ON D SIZE SHT WAS B SIZE	2-2-38	M'V
R	DIM 3/16 WAS 13/64 & 9/32 WAS 1/4	2-21-38	WEHMAHEN
S	CUT BACK FLANGES & ADDED 13/16 DIM. ON -5 & -6	4-26-38	R.K.W.
T	DIMS ON -5 & -6 13 3/4, 13 & 5 1/4/32 WERE RESP. 13 5/8, 12 5/8 & 5 5/16	4-26-38	
U	CHGD DIM 2 PLACES 3/8 WAS 1/2	5-27-38	M'V
V	NEXT ASSY OF -4 ON PBY-3 & PBY-4 WAS 28F2292	6-6-38	R.K.W.
W	DIMS 1 1/16 WERE 1/2 ON PARTS -5 & -6	6-14-38	
X	17/64 HOLES IN -5 & -8 & 6 1/2 DIM. REMOVED	6-14-38	
Y	RIVETS & DIMS IN R.H. END OF -7 REMOVED	6-14-38	R.K.W.
Z	REVISED SLOT IN -6 & -7. 1 5/16 DIM WAS 1 3/8. ADDED DIM 2 ON -7 DIM 7/8 WAS 1 1/2	6-14-38	R.K.W.
AA	11 5/8 DIM. WAS 13 9/16. NOTE -2 3/4 x 1 x .070 x 11 5/8 ETC. WAS -2 IDENT. TO -3 EXCEPT FOR FLANGES.	1-14-42	JONES

O.H.	MODEL	NEXT ASSY	REQ
-3	28-5MA	28W3017	2
-3	28-5MC	28W3017	2
-3	28-5ME	28W3017	2
-3	28-5MN	28W3017	2
-3	28-5AMC	28W3017	2
-3	28-5AMN	28W3017	2
-2	PBY-5	28W3017	1
-2	PBY-5A	28W3017	1
-2	PBY-5B	28W3017	1
-2	28-5MA	28W3017	1
-2	28-5MC	28W3017	1
-2	28-5ME	28W3017	1
-2	28-5MN	28W3017	1
-2	28-5AMC	28W3017	1
-2	28-5AMN	28W3017	1
-4	PBY-4	28F2193-6	
-4	PBY-3	28F2193-6	
-5	PBY-4	28F2292	
-5	PBY-3	28F2292	
-8	PBY-4	28F2292	
-8	PBY-3	28F2292	
-3	PBY-4	28W3017	
-2	PBY-4	28W3017	
-3	PBY-3	28W3017	
-2	PBY-3	28W3017	
-8	PBY-2	28F2292	
-5	PBY-2	28F2292	
-4	PBY-2	28F2193	
-3	PBY-2	28F2193	
-2	PBY-2	28E2014	

SHIPS #0842-0871 INCL. & 0901-0907 INCL.

SHIPS #0490-#0496 INCL.

O.H.	MODEL	NEXT ASSY	REQ
-8	PBY-5	28F2292	1 EA
-8	PBY-5A	28F2292	1 EA
-8	PBY-5B	28F2292	1 EA
-8	28-5MA	28F2292	1 EA
-8	28-5MC	28F2292	1 EA
-8	28-5ME	28F2292	1 EA
-8	28-5MN	28F2292	1 EA
-8	28-5AMC	28F2292	1 EA
-8	28-5AMN	28F2292	1 EA
-3	PBY-5	28W3017	2
-3	PBY-5A	28W3017	2
-3	PBY-5B	28W3017	2

PARTS LIST PER ASSY.: 28F2192 -2, -3, -4, -5, -8; 28F2192-8 ASS'Y: -6, -7; AN442-D4

REPLACES · REPLACED BY · APPROVED · NOTED · SCALE 6" = 1'0" · LIMITS ON DIMENSIONS UNLESS OTHERWISE SPECIFIED 1/32

REQUIREMENTS PER AIRPLANE

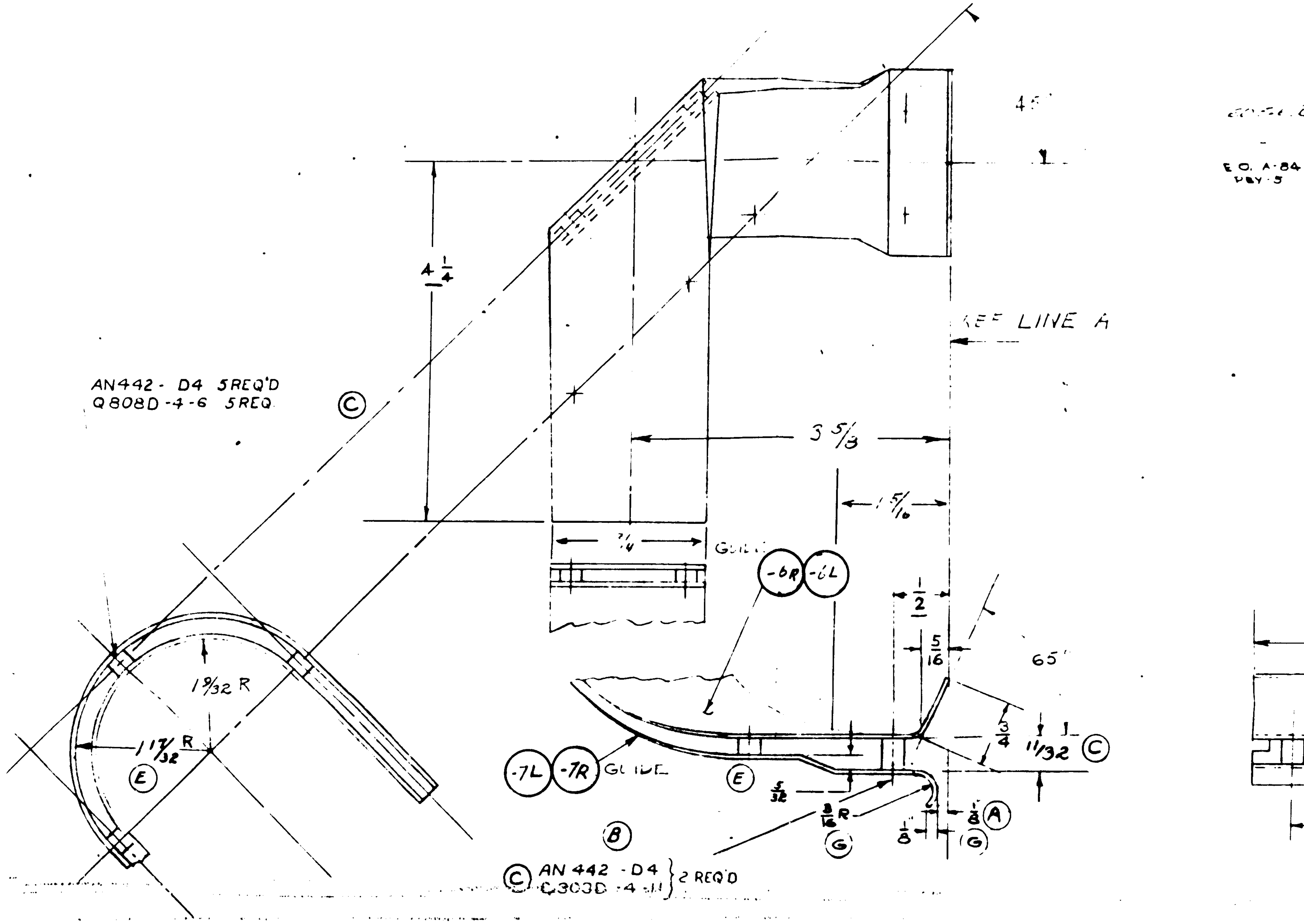
MATERIAL: NAVY NOTED · SPEC.: NOTED · HEAT TREAT: NONE · FINISH: -2, -3, -4 ONLY Z-P-28AV

3-8-38 · DRAFT · CHECK · EXAM · ENG · R

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

NAME: SUPPORTS-FURNS-DE-ICER DISTR. VALVE

DWG SIZE D 28F2192

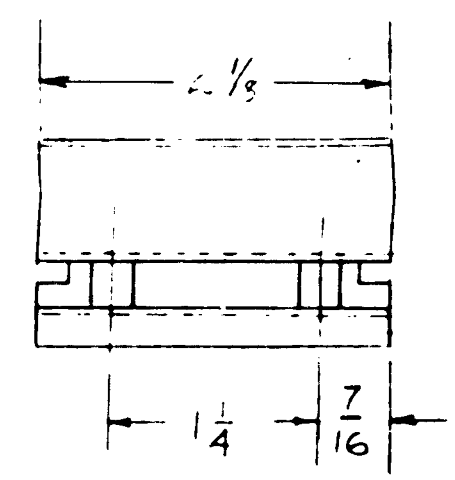


LET	ALTERATION	DATE	BY
A	3/8 ... CHG TO 1/8 R	12-10-40	
	REDESIGNED GUIDE		
B	REMOVED SCREWS, ADD RIVETS	12-20-40	SMSF
	RENAILED		
C	Q808D-4-6 WAS Q808D-4-4	-13-41	SHIRO
	Q808D-4-11 WAS Q808D-4-8		
D	-6L & L-7L FROM ...		
E	1 17/32R WAS 1 15/32 R	2-26-41	
F	REMOVED APPROX FLAT PATTERN	2-26-41	
G	1/8 RADIUS CHG. TO 3/16 RADIUS / 1/16 DIM CHG TO 1/8 ON -7 ...		

E.O. A-84 PBY-5

NOTE: RIGHT HAND SHOWN
LEFT HAND OPP.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE



ASSY DASH NO.	MODEL	NEXT ASSY	REQ
R	PBY-5A & B	28F5253R	EA
L	PBY-5A & B	28F5253	EA
R	28-5ME	28F5253R	1
L	28-5ME	28F5253	1
R	PBY-5	28F5253R	1
L	PBY-5	28F5253	1

REQUIREMENTS PER AIRPLANE

REPLACES — .18 CALC WT

REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED: 1/32 ± 1/2°

SCALE: 12-1-...

STAMP PART NUMBER WHERE SHOWN

PART NO.	STOCK	MATERIAL	SPEC	REQ -0 LH	REQ -0 RH
AN442-D4				7	7
Q808D-4-6				5	5
Q808D-4-11				2	2
-7R	.051 × 3 3/8 × 11 1/4	ALC SHT	47A8 - A		1
-7L	.051 × 3 3/8 × 11 1/4	ALC SHT	47A8 COND A	1	
-6R	.051 × 3 1/8 × 10 7/8	ALC SHT	47A8 COND A		1
-6L	.051 × 3 1/8 × 10 7/8	ALC SHT	47A8 COND A	1	

PARTS LIST PER ASSY. (REQ -0, -2, -3, -4, -5)

A.C. / NAVY: SR-53 — HEAT TREAT

FINISH

DRAFT / CHECK / STRUCT / MAT / APPROV / ENG: 11-24-40, 11-24-40

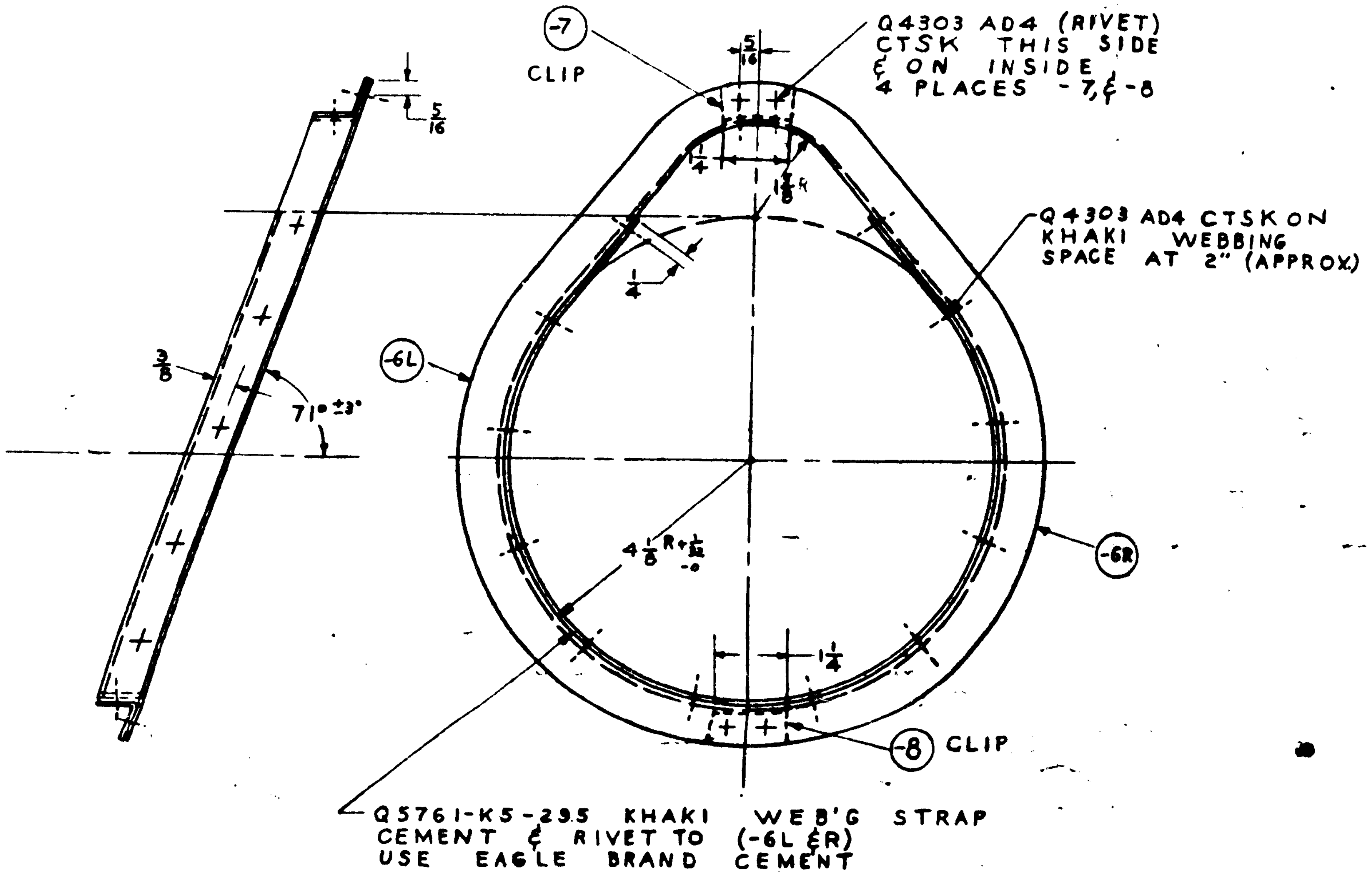
OPP HAND 28F5265 L

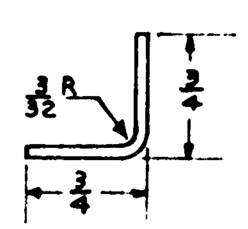
NAME: GUIDE ASS'Y BLISTER SHIELD SNUBBER

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

DWG SIZE D — 28F5265

LET	ALTERATION	DATE	BY
C	TRACED. NO WT. CHG.	10-7-43	L.BALDWIN





DETAIL -6L ¢ -6R
SCALE 12" = 1'-0"

ASS'Y DASH NO.		NEXT ASS'Y	REQ
	PBY-5A	28B5554	2
	28 5AMN	28B5554	2
	28 5AMC	28B5554	2

REQUIREMENTS PER AIRPLANE

REPLACES 28F5851-10-3-40 — .18 CALC. WT.

REPLACED BY — ACT. WT.

SCALE 6" = 1'-0" ¢ NOTED — 1/32

PART NO.	STOCK	MATERIAL	SPEC.	REQ. -0
Q4303 AD4				
Q5761-K5-29.5				1
-8	.064 X CUT-OFF	ALCLAD	QQ-A-362 COND. T	1
-7	.064 X CUT-OFF	ALCLAD	QQ-A-362 COND. T	1
-6R	.072 X 1 7/8 X 18	ALC. SH'T	QQ-A-362 COND. T	1
-6L	.072 X 1 7/8 X 18	ALC. SH'T	QQ-A-362 COND. T	1

PARTS LIST PER ASSY.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

A.C.		E. SNVILLE			SC	W.P.Z.	JMH
NAVY	ZP-GP	10-3-40	R.R. H	GREEN	11-6-40	11-6-40	
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT.	MAT.	APPROV.	ENG.

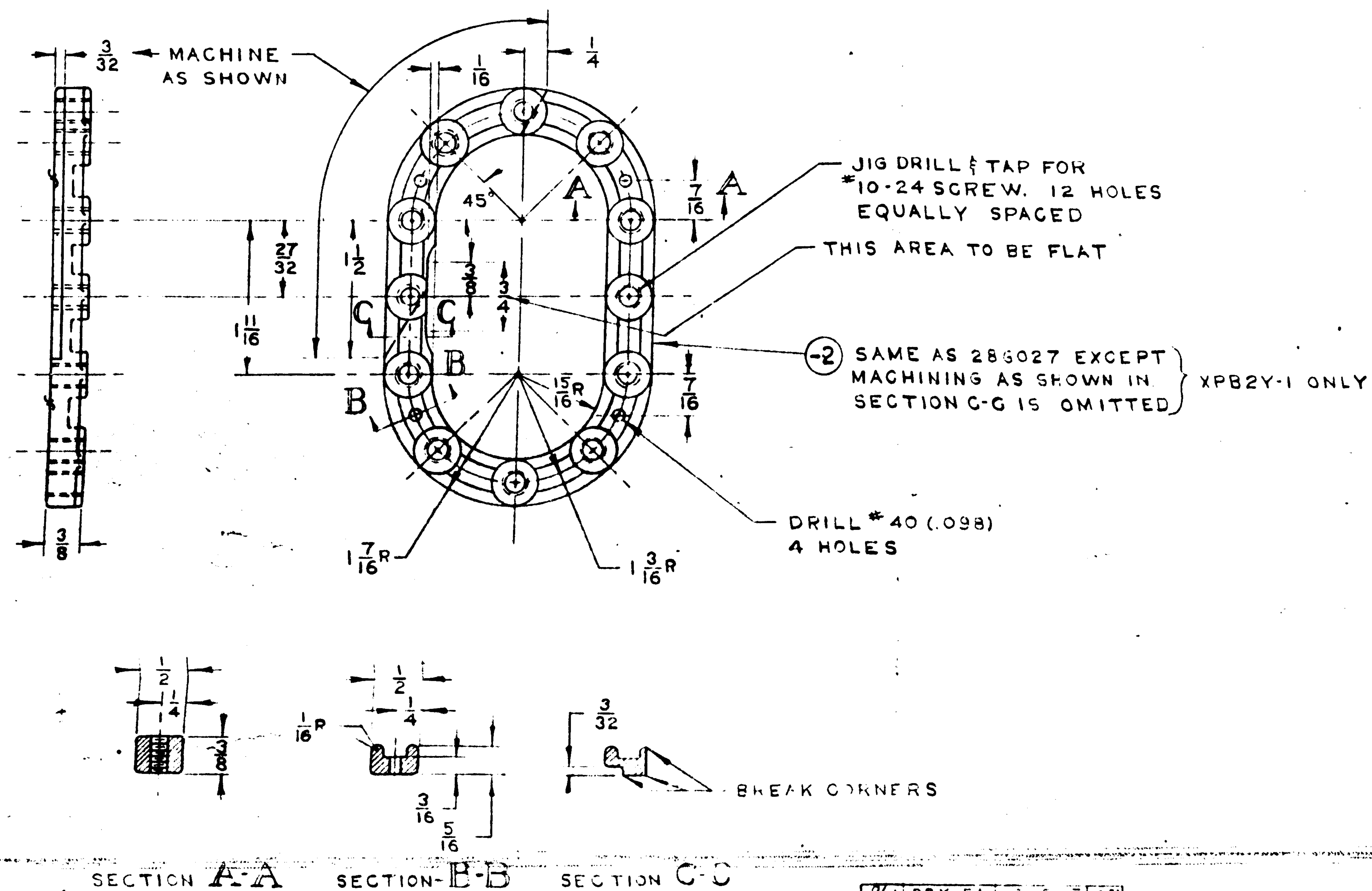
NAME RING- FURN'S— WATER TANK STOWAGE SUPPORT

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

DWG. D 28F5851

28F5851

K TRACED NO WT CHG 10-12-43



MATERIAL MAY BE:
(1)-AL ALLOY CASTING 195T4
SPEC AN-QQ-A-390 CL I, T.S
29,000 P.S.I., OR
(2)-AL AL CASTING S195T6,
SPEC. AN-A-5 CL II, T.S.
32,000 P.S.I

NOTE:
ALL RADII $\frac{1}{32}$ UNLESS OTHERWISE NOTED

-2 NOTED NOTED NOTED

-1 MACH CASTING-MAKE FROM 28G027
-0 MACH. CASTING-MAKE FROM 28G027
28G027 ROUGH CASTING NOTED NOTED

REPLACES 28G027

1/32 12" = 1'0"

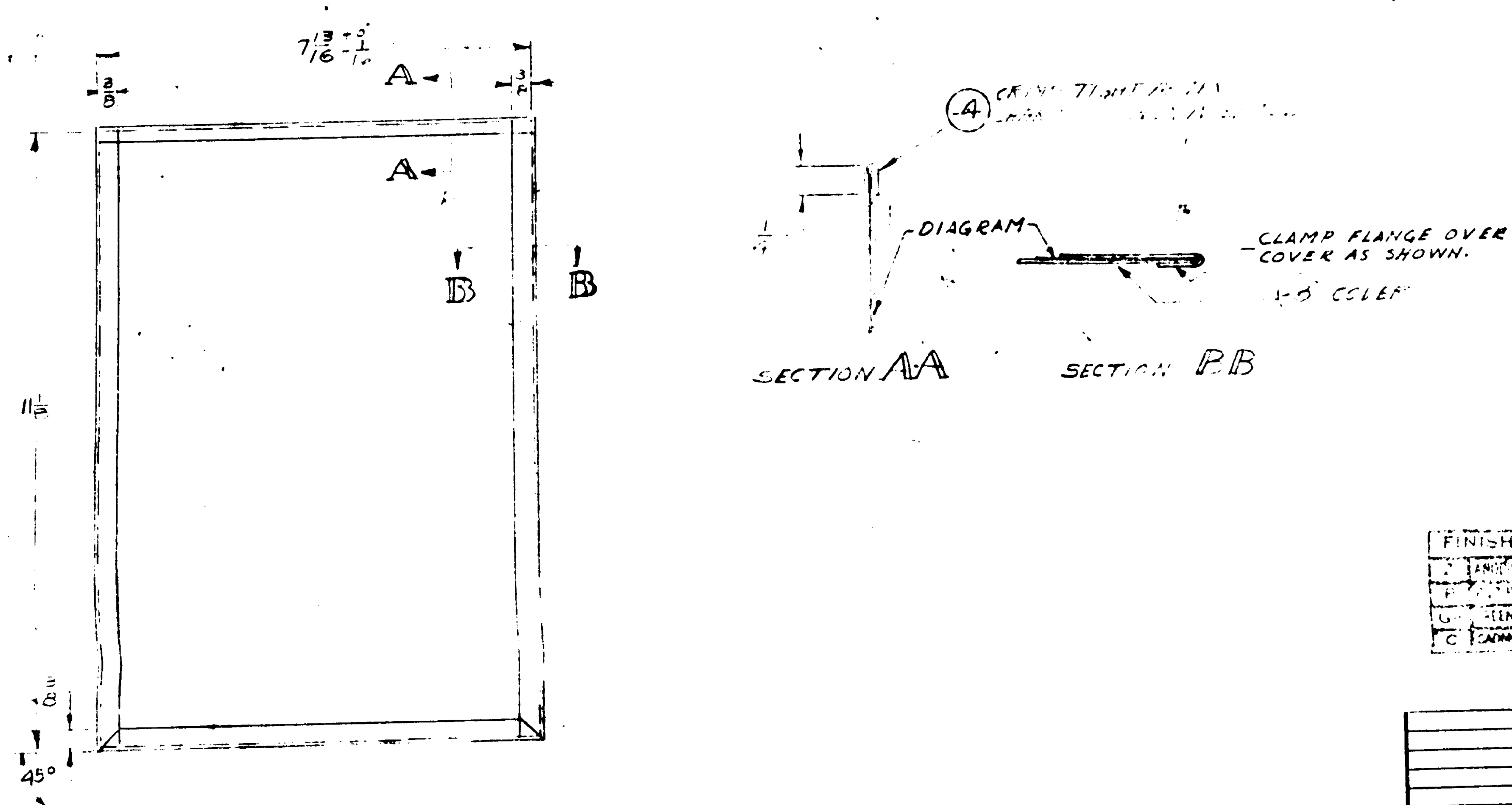
NOTED NONE

JEWETT LCW 9-21-36

FLANGE-FUEL SYSTEM SIGHT GAGE-INNER

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

D 28G027



FINISH CODE	
[illegible]	[illegible]
[illegible]	[illegible] PRIMER
G	[illegible] PRIMER
C	CADMIUM PLATE

ASSY DASH NO	MODEL	NEXT ASSY	REQ.
-6	PBY-3	28F295	1
	COMM. 2	28F295	1
-6	PBY-3	28F295	1
	PBY-2	28F295	1
	PBY-1 & XPBY-1	28F295	1/1
-7	SEE NOTE #1	28F295	1

REQUIREMENTS PER AIRPLANE

PART No	STOCK	MATERIAL	SPEC.
	(SEE NOTE #1)		
	(PBY-3 DIAGRAM)		
28G200	(PBY-2 DIAGRAM)		
	(COMM. 2 ONLY)		
	(PBY-1 DIAGRAM)		
-1	.020 × [illegible]		
-2	1/64 × 7 3/4 × 11 1/8		
-2	.041 × 8 × 11 5/8	AL. ALLOY	[illegible]

PARTS LIST PER ASSY.

REPLACES — CALC. WT .20

REPLACED BY — ACT. WT

STAMP PART NUMBER WHERE SHOWN

ENG. FILE

HEAT TREAT — FINISH: ZP-ZGP

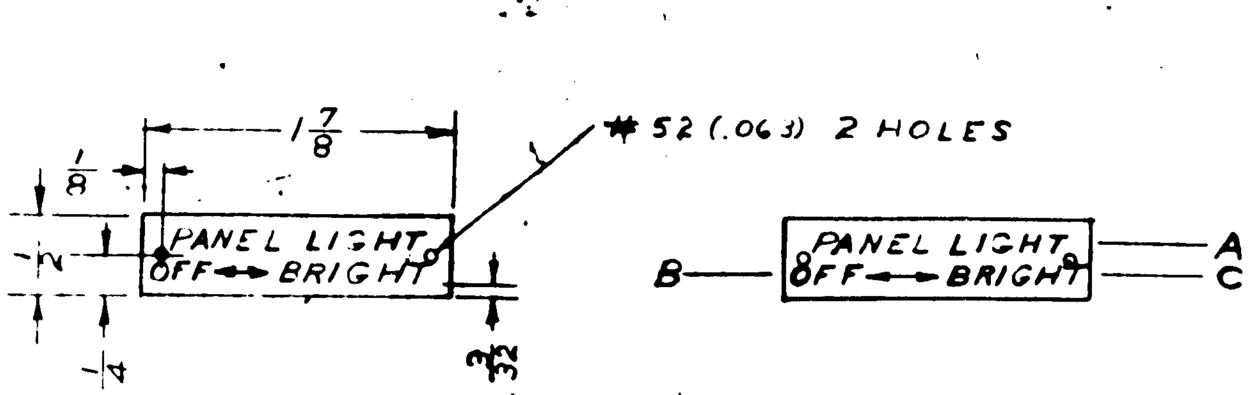
DRAFT: D.W.H. — CHECK — STRUCT: MILLIS — MAT — APPROV: L.C.W. — ENG.

OPP. HAND: NONE

NAME: CASE-FUEL SYSTEM CHART

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SIZE: D — DWG. 28G081



LET	ALTERATION	DATE	BY
A	ADDED -9 & PBY-5 REQ'MTS		
B	ADDED PB2Y-2 REQ'MTS.		
C	ADDED -10, -11, -12, -13, -14 AS SHOWN		
D	ADDED -15, PB2Y-2 REQMTS		MILLER
E	ADDED -10N	12.6.40	
F	NOTE WAS RAISED LETTERS. ADDED NEXT ASS'Y REQ. FOR B24C & D	1-20-41	
G	ADDED -16 FOR B24C & D	7-16-41	
H	ADDED -17, -18 & -19 FOR XB-32 & YB-32	9-29-41	CROW
J	ADDED -7F REQ FOR XB-32-YB-32	11-26-41	
K	ADDED -9 FOR PBY-5A		
L	[illegible] REQ'AR BLK [illegible]		
M	REV. REQ/A.R. [illegible]		

E.C 28297 — E.O A547931 — E.O A94452

DASH NO.	A	B	C
-1	AS SHOWN		
-2	RADIO TABLE LT.	OFF ↔	BRIGHT
-3	PROJECTOR LT.	OFF ↔	BRIGHT
-4	FORMATION	OFF ↔	BRIGHT
-5	AFC	OFF ↔	BRIGHT
-6	INSTR. BD. LT.	OFF ↔	BRIGHT
-7	COMPASS	OFF ↔	BRIGHT
-8	INSTR. LIGHTS	OFF ↔	BRIGHT
-9 (A)	VOLTAGE	←	INCREASE
-10 (C)	PROJECTOR LT.	INCREASE	→
-11 (C)	PEDESTAL LTS.	OFF ↔	BRIGHT
-12 (C)	GYROPILOT LTS	OFF ↔	BRIGHT
-13 (C)	L. COMPASS LT.	OFF ↔	BRIGHT
-14 (C)	R. COMPASS LT.	OFF ↔	BRIGHT
-15 (D)	TABLE LIGHT	OFF ↔	BRIGHT
-10N (E)	REGELWEERST	PROJECTEUR	
-16 (G)	GUN SIGHT LT.	OFF ↔	BRIGHT
-17 (H)	OVERHEAD LIGHT	OFF	BRIGHT
-18 (H)	FORMATION SIGNAL	DIM ↔	BRIGHT
-19 (K)	COMPARTMENT LIGHT	OFF ↔	BRIGHT

NOTE: LETTERING TO BE 1/8" HIGH RAISED & POLISHED ABOVE ETCHED, DULL-BLACK BACKGROUND.

(F) WHEN "F" FOLLOWS PART NO. - TO BE RECESSED & FILLED WITH PALE GREEN FLUORESCENT LACQUER (#10 U.S. RADIUM CO. OR EQUIV.) BACKGROUND DULL BLACK

PURCHASE TO DRAWING

REQUIREMENTS PER AIRPLANE

D.N.	MODEL	NEXT ASS'Y	REQ
-16	B24E	32E1424	1
-16	B24D	32E1424	1
-3	PBY-5A	28E5768	1
-3	PBY-5	28E5768	1
-3F	PBY-5A	28F1113	1EA
-3	PBY-5B	28E6125	1
-3	PBY-5B	28E6258	1
-2	PBY-5B	28E6258	1
-1	PBY-5B	28E6258	1
-19	PBY-5B	28E6125	1
-12	PBY-5A	28E5771	1
-3	PBY-5B	28F6058	1
-7	28-5 AC AMC	28E4001	1EA
-3	28-5 AC AMC	28E4001	1EA
-7	28-5MH E	28E5527	1EA
-3	28-5MH F	28E5527	1EA
-7	XPB2Y3	29E3281	1EA
[illegible]	[illegible]	[illegible]	[illegible]
-15	XPB2Y3	29E[illegible]	1EA
-1	PB2Y3 XPB2Y3	29E1167	1EA
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	29E1165	1EA
-3	PB2Y2 XPB2Y3	29E1141	1EA
-2	PB2Y2 XPB2Y3.	29E1141	1EA
-7	PB2Y-3	29E3196	1
-7	PB2Y-3	29E3856	1
-15	XPB2Y-3	29F3499	1
-15	PB2Y-3	29F3499	1
-15	PB2Y3	29E3574	1
-6	PB2Y3 & XPB2Y3	29F3390	1EA
-1	XC PB2Y-3	29E3859	1EA
-1	PB2Y-3	24E3399	1
-1	PB2Y-3	29E3283	1
D.N.	MODEL	NEXT ASS'Y	REQ

O.H.	MODEL	NEXT ASSY.	REQ.
-7F	B24D	32E1633	1
-7F	B24E	32E3278	1
-7F	B24D	32E3278	1
-7F	B24C/LB30	32E5234	1EA
-7F	B24D	32E5234	1
-4F	B24E	32F4280	1
-4F	B24D	32E1608	1
-19	PBY-5B	28E6125	1
-7F	YB-32	33E022	1EA
-4	XB-32 YB-32	33E030	1EA
-17F	XB-32, YB-32	33E022	1EA
-16	B24C&D	32E1234	1
-12	28-5 MN MEMC	28E5611	1EA
-19F	XPB2Y3	29E5196	1
-17F	XB-32, YB-32	33E022	1EA
-12	PBY-5	28E5771	1
-4F	B24D	32E1010	1
-4F	B24C	32E1010	1
-12N	28-5MN	28F5568	1
-15	XPB2Y-3 PB2Y-2	29E1182	1EA
-15	PB2Y-2 XPB2Y-3	29E1129	1EA
[illegible]	PB2Y-2 XPB2Y-3	29E1120	1EA
-13	PB2Y-2 XPB2Y-3	29E1120	1EA
-12	PB2Y-2 XPB2Y-3	29E1120	1EA
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	28-5MF	28E5512	1
[illegible]	PB2Y-2	29F1004	1
[illegible]	[illegible]	[illegible]	[illegible]
-4	XB24E B24	32E027	1EA
-4	B24A	32E237	1
-4	LB-30	32E5023	1
-9	PBY-5	28E5011	1
-4F	B24D	32E1479	1
-4F	B24D	32F3003	1
-4F	B24D	32F4280	1
-7	B24D	32E1018	1
-7	XB32 B24	32EC15	1EA
-7	B24A	32E018	1
-7	B24C	32E1018	1
-5	PB2Y2 XPB2Y3	29F1004	1EA
-4	PB2Y2 XPB2Y3	29F1004	1EA
-6	PB2Y2 XPB2Y3	29F1004	1EA
-7	PB2Y2 XPB2Y3	29E1129	1EA
-1	PB2Y2 XPB2Y3	29E1103	1EA

Notes beside the table: #83 TO 1176; MCR #37; #1-82; #435-1184; #42 & ON; MCR 164-2; MCR 164-2 (A); C.MCR 176 ONLY; MCR-335; MCR 404-2(1); ALL EXCEPT 50946-110; MCR 35-5-2 & ON; #1-MCR 35-5-2; ALL EXCEPT 50946-110; #1 TO 97; #83-; #435-; 335 & ON; #1-5

APPROVED 7-18-39 — DATE

REPLACES — REPLACED BY

CALC. WT. .003 — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 12" = 1'

	MATERIAL	SPEC.	HEAT TREAT	FINISH
AC	.030 ALUN. SHT	57-151-1 HH	NONE	NOTED
NAVY	.030 ALUM. SHT	47A2 HH	NONE	NOTED

OPP. HAND: NONE

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

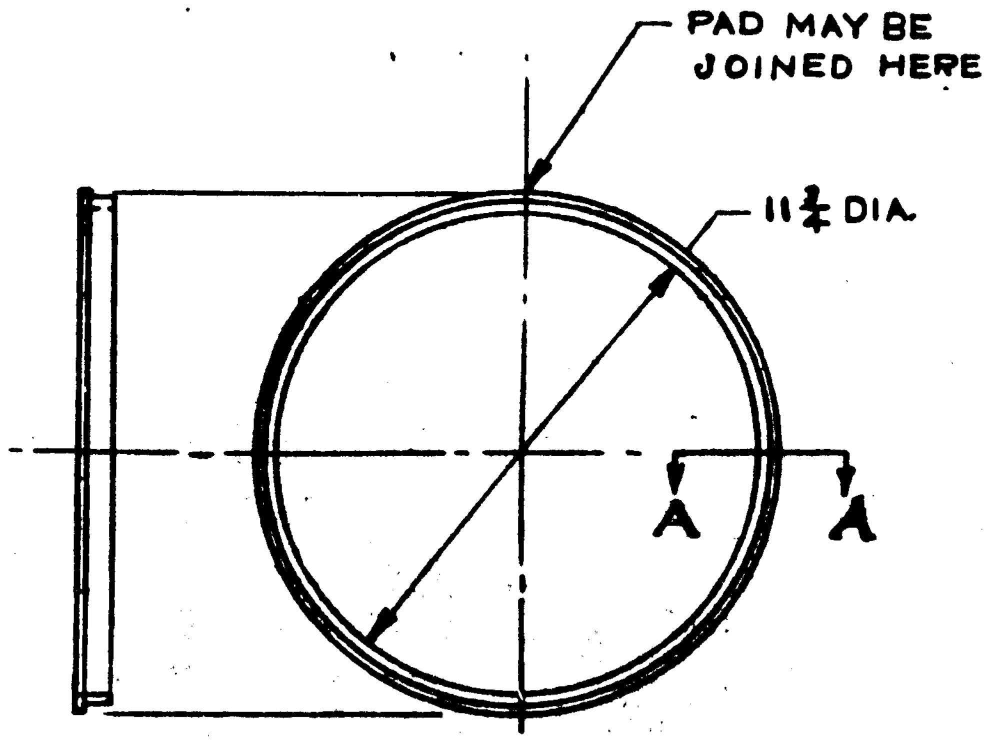
NAMEPLATES - ELEC - STD RHEOSTATS

D NNE031

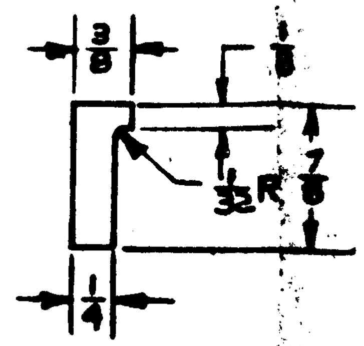
ENG. FILE

LET	ALTERATION	DATE	BY
D	TRACED	7-10-43	ZAWALY
E	ADD B-24 (FT WORTH) ON		
	N/A 32-0-2005 M.C.R. 510A(2)	7-10-43	HILLEMAN
F	LIMIT 32-0-1005 (NA) ADD		
	32-0-3005 M.C.R. 508(1) & ON	7-10-	HILLEMAN
G	LIMITED 32-0-2005 (N.A.) & ADDED		
	N.A. 32-0-2080 FOR MCR 510C(1)		
	& ON	10-9-43	OWENS

M.C.R 510A(2)
M.C.R 508(1)
MCR 510 C(1)



SCALE 3"=1'0"



SEC. A-A
SCALE 12"=1'0"

HARDNESS-50 TO 60 SHORE DUROMETER
MAT'L MUST BE PROOF AGAINST
SWELLING OR DAMAGE FROM CONTACT
WITH LUB. OIL, HEAT OR GASOLINE.

MCR 510C(1) & ON
MCR 508(1) TO MCR 510C(1)
M.C.R 510A(2)
M.C.R 50(1) TO MCR 510A(1)

ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ.
	B24K	32-0-2080	8
	B24D	32-0-2080	8
	B24H	32-0-2080	8
	B24D	32-0-3005	8
	B24H	32-0-3005	8
	B24E	32-0-1005	8
	B24D (FW)	32-0-2005	8
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	LB30	32-0-006	4
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	32-0-005	8
	XB24	32-0-006	4
	[illegible]	[illegible]	4
	PBY-5B	28-0-5001	4
	PBY-5A	28-0-5001	4
	PBY-5	28-0-5001	4
	B24	32-0-005	4
	B24	32-0-005	4
	B24A	32-0-006	4
	B24A	32-0-005	4

REQUIREMENTS PER AIRPLANE

REPLACES 32-0-031 OF 6/8/39 — .58 CALC. WT.
REPLACED BY — ACT. WT.
LIMIT OF DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE NOTED
STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-5
		NEOPRENE	COMM'L					

PARTS LIST PER ASSY.

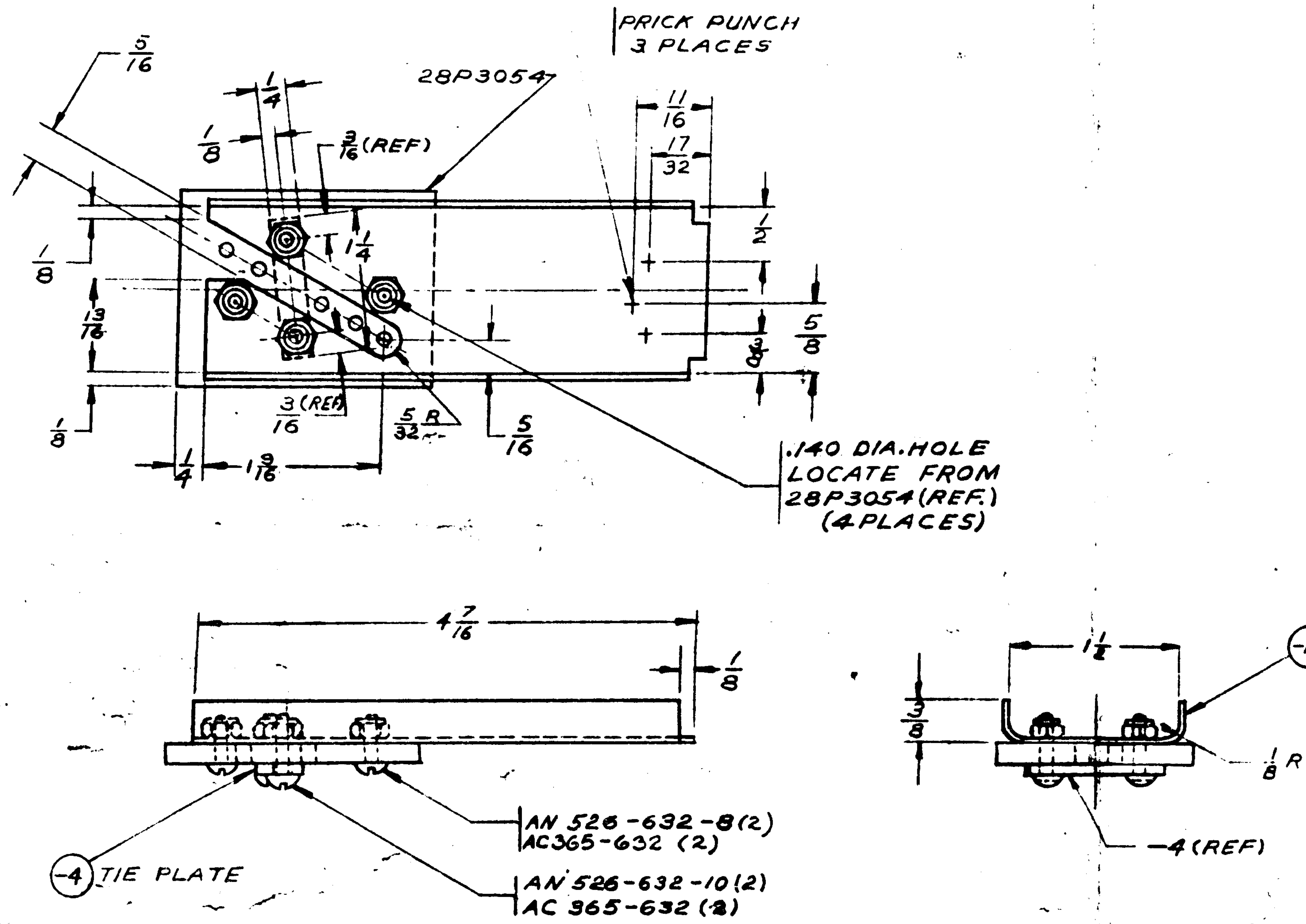
AC	NONE	NONE	ADMS	FOLLICK	E.H.W.	G.F.	OWEN	T.W.F.
NAVY			6-8-39	6-9-39				7-5-39
HEAT TREAT		FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

NAME: PAD OIL COOLER
OPP. HAND
DWG. SIZE D — 32-0-031

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

32-0-031

LET	ALTERATION	DATE	BY
H	TRACED, NO. WT. CHG.	8-5-43	[illegible]



1. FINISH-11 L/R Z-P-2GR
[illegible]

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
-L R	PBY-5A	28P5005	1 EA
-L R	PBY-5	28P5005	1 EA
-L R	PBY-5B	28P5005	1 EA
-L R	28-5AMC	28P5005	1 EA
-L R	28-5AMN	28P5005	1 EA
-L R	28-5MN	28P5005	1 EA
-L R	28-5ME	28P5005	1 EA
-L R	28-5MC	28P5005	1 EA
-L R	28-5MA	28P5005	1 EA

• REQUIREMENTS PER AIRPLANE

PART No.	STOCK	MATERIAL	SPEC.	-0 LH	-0 RH	-2 LH	-2 RH	-3 LH	-3 RH	-4 LH	-4 RH	-5 LH	-5 RH
AC 365-632				4	4								
AN 526-632-8				2	2								
AN 526-632-10				2	2								
28P3054				1	1								
-11R	.051x2 3/8x4 5/8	AL. AL. SHT.	QQ-A-355-T		1								
-11L	.051x2 3/8x4 5/8	AL. AL. SHT.	QQ-A-355-T	1									
-4	.094x 3/4x1 3/4	AL. AL. PLATE	QQ-A-355-T	1	1								

PARTS LIST PER ASSY.

REPLACES 28P3053 OF 9-13-37 | .10 CALC. WT.
REPLACED BY | ACT. WT.
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± .02 | SCALE 12" = 1'-0"
STAMP PART NUMBER WHERE SHOWN

FINISH CODE	
GP	GREEN PRIME
Z	ANODIC TREATMENT
P	NO PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

SEE FILE

A C		9-13-37	9-14-37	O.W.M.		3-25-38	A.R
NAVY NONE	NOTED	SUGGS	[illegible]	MORRIS		X.C.W.	
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

NAME BRACKET ASSEM-ENGINE CONT. FAIRLEAD-FRONT SPAR.

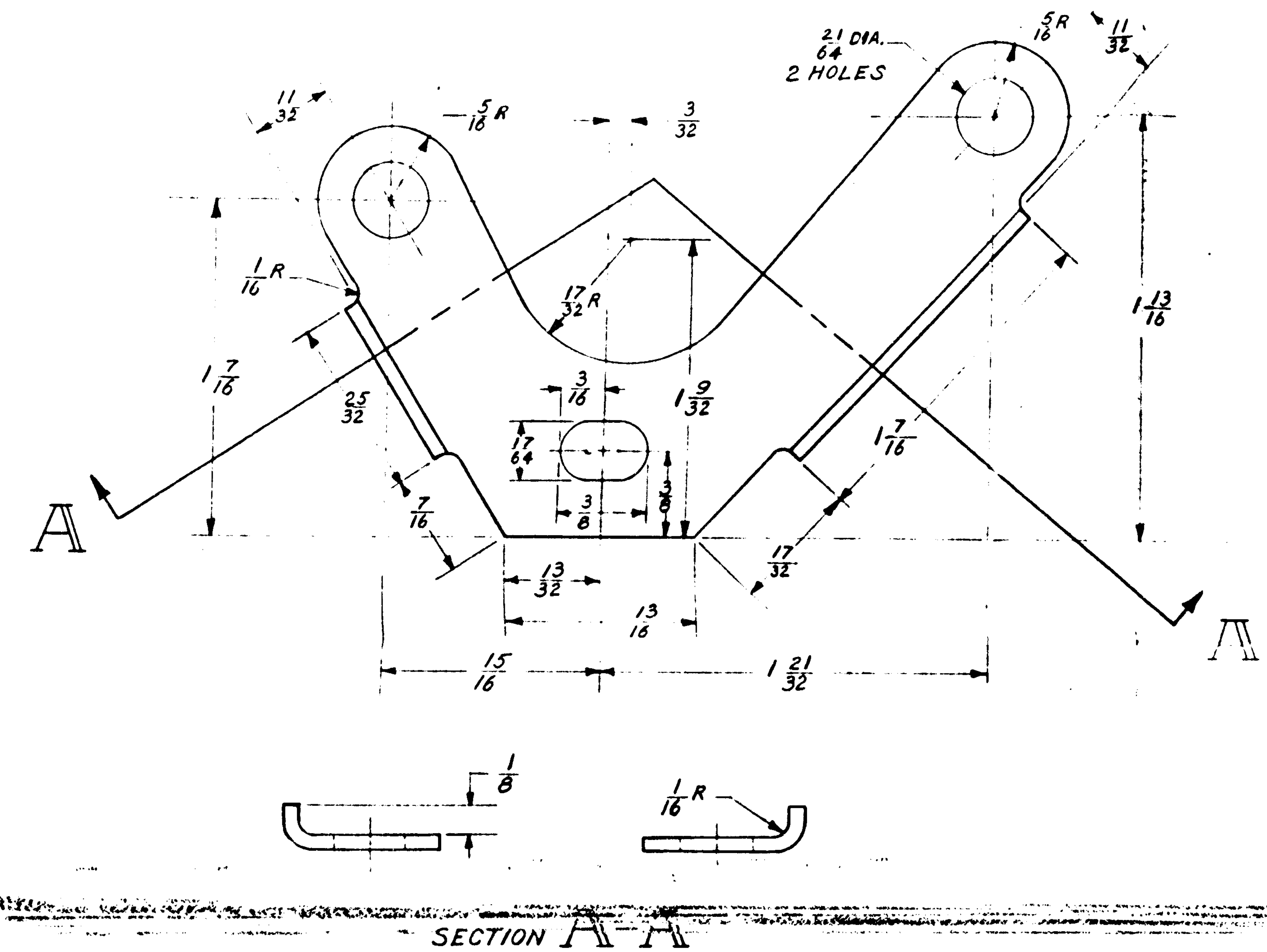
OPP. HAND 28P3053-R

DWG. SIZE D 28P3053

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

- 28P3053

LET	ALTERATION	DATE	BY
G	TRACED, NO WT. CHG.	9-9-43	N.A. DOM. / DUNKIAN



NOTE:

ALL SHEET TO BE ELECTRIC FURNACE BRIGHT FINISH

MAT. NOTE:

1. S.A.E. 1025 .062 SHT. STL. SPEC. AN-S-11 55,000-70,000 P.S.I. OR
2. S.A.E. 1020 .062 SHT. STL. SPEC. AN-S-11 55,000-70,000 P.S.I. OR
3. C.M. (X4130) .062 SHT. STL. SPEC. AN-QQ-5-685 COND. A-1 H.T. 90,000-125,000 #/□"

ALL EXCEPT 59 TO 67 & 134 TO 139

#59-67 & 134-139

#1 TO 29

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
	B24C, D, E	32P1017	4EA
	PBY-5	28P5000	2
	PBY-5	28E5030	8
	PBY-5	28P5060	1
	PBY-5A & 5B	28P5000	2EA
	ALL 28-5'S	28P5000	2EA
	B24A	32P076	4
	XB-41 & B24	32P076	4EA
	XB24	32P1017	4

REQUIREMENTS PER AIRPLANE

REPLACES 32P273 OF 11-16-39 — CALC. WT.

REPLACED BY — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 24" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 LH REQ.	-0 RH REQ.	-2 LH REQ.	-2 RH REQ.	-3 LH REQ.	-3 RH REQ.	-4 LH REQ.	-4 RH REQ.	-5 LH REQ.	-5 RH REQ.
■	NOTED	NOTED	NOTED										

PARTS LIST PER ASSY.

ENG. FILE

		DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.
AC NOTED	C.A.C.-ZF-32-001	TOMPSON	TOLLICH		GF	E.H.W.	F.W.F.
NAVY NOTED	C-P-2GP	11-16-39	11-20-39			I. H. OWEN	11-21-39
HEAT TREAT	FINISH						

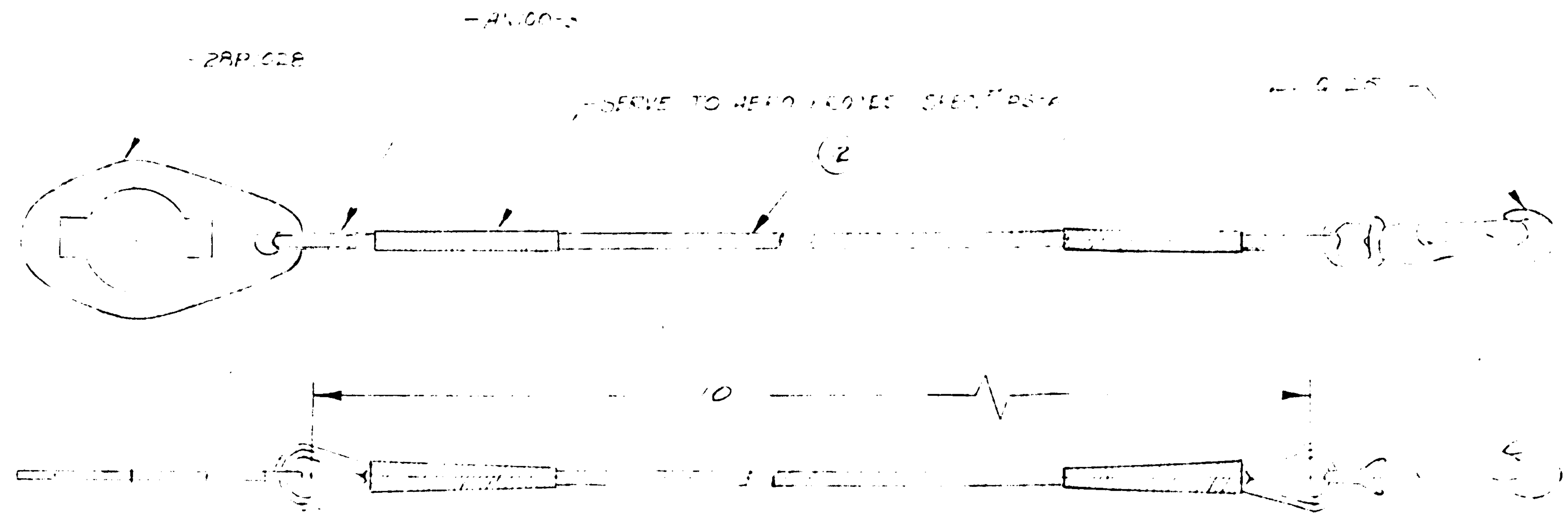
NAME BRACKET - PROP. CONTROL-FORWARD

OPP. HAND

DWG SIZE D — 32P273

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

32P273



NOTES:

[illegible]

ALT	ALTERATION	DATE	BY
[illegible]	TRACED [illegible]	[illegible]	[illegible]

ASSY DASH No.	MODEL	NEXT ASSY	REQ

REQUIREMENTS PER AIRPLANE

PART NO.	STOCK	MATERIAL	SPEC.	-0	-3	-4	-5
AN[illegible]				2			

PARTS LIST PER ASSY.

STAMP PART NUMBER WHERE SHOWN

ENG. FILE

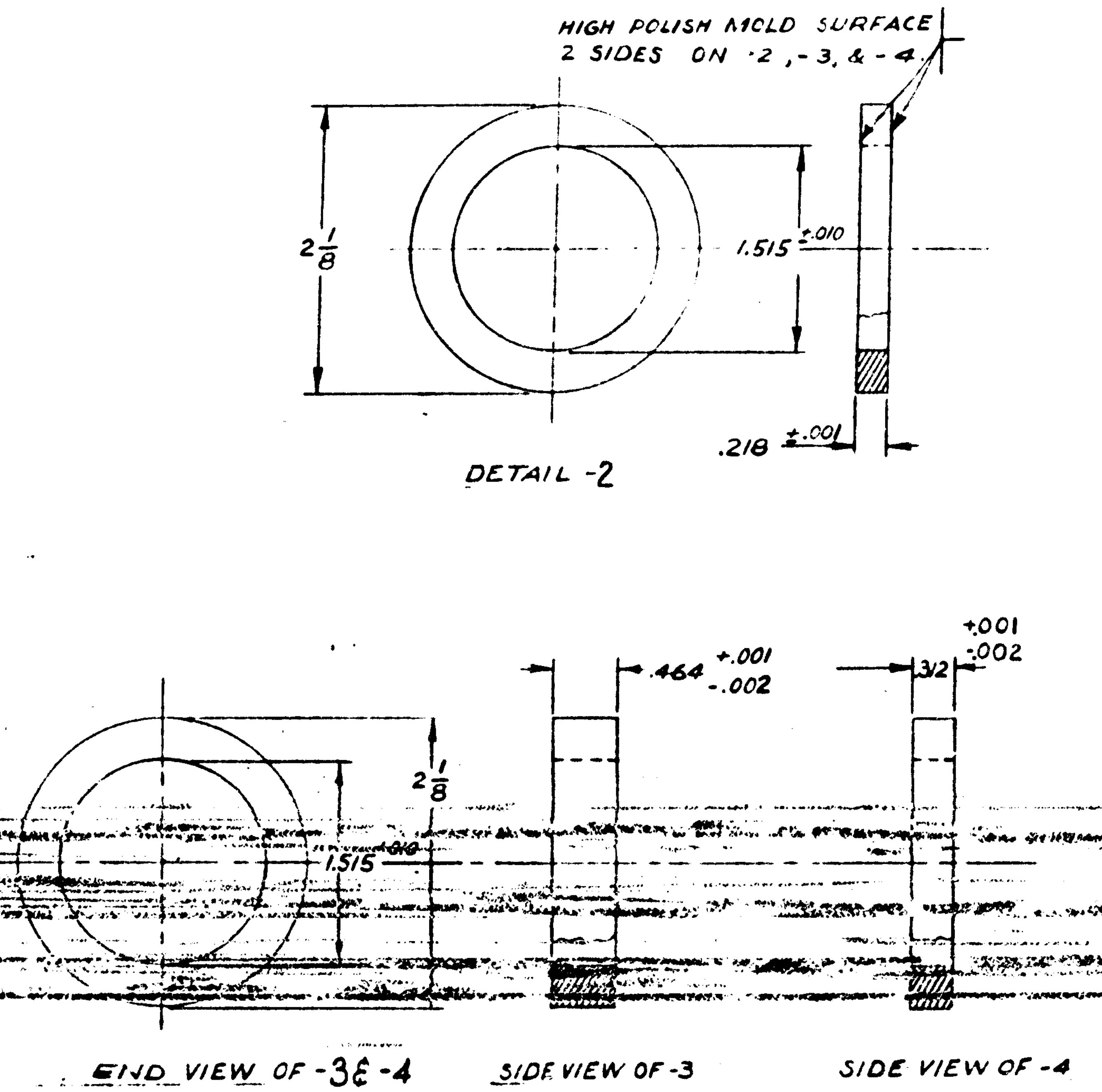
NAME CABLE ASSEMBLY T.P. STARTER CRANK SAFETY

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . . SAN DIEGO, CALIF.

DWG. D SIZE 28P1027

28P1027

LET	ALTERATION	DATE	BY
J	TRACED. NO WT. CHG.	7-30-43	GODSIL



NOTE:-
ARMY SPEC: -2,-3,-4 = 32212-A TYPE I
NAVY SPEC: -2,-3,-4 = 17P4 TYPE CFG

WT.	-2	-3	-4
CALC	.04	.05	.04
ACT.			

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
-4	28-5MN	28P5002	1
-4	28-5AMC		1
-4	28-5AMN MC		1EA
-4	28-5MAME		1EA
-4	PBY-5,5A,5B		[illegible]
-3	28-5MN		3
-3	28-5AMC		3
-3	28-5AMN, MC		3EA
-3	28-5MAME		3EA
-3	PBY5,5A,5B		3EA
-2	28-5AMC		3
-2	PBY-5B		3
-2	28-5MN		3
-2	28-5AMN, MC		3EA
-2	28-5MAME		3EA
-2	PBY-5,5A	28P5002	3EA

REQUIREMENTS PER AIRPLANE

REPLACES 28P1245 7-30-43 — NOTED CALC. WT.
REPLACED BY — ACT. WT.
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/64 — SCALE 12" = 1'0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.
-4	MAKE FROM MOLDED COTTON FLOCK FILLER PHENOLIC		NOTED
-3			NOTED
-2			NOTED

PARTS LIST PER ASSY.

LH/RH REQ. -0	LH/RH REQ. -2	LH/RH REQ. -3	LH/RH REQ. -4	LH/RH REQ. -5

A C			F. KALLIS	ANDERSON			MILLER	
NAVY			6-16-36	2-20-37				
HEAT TREAT	FINISH		DRAFT	CHECK	STRUCT.	MAT.	APPROV.	ENG.

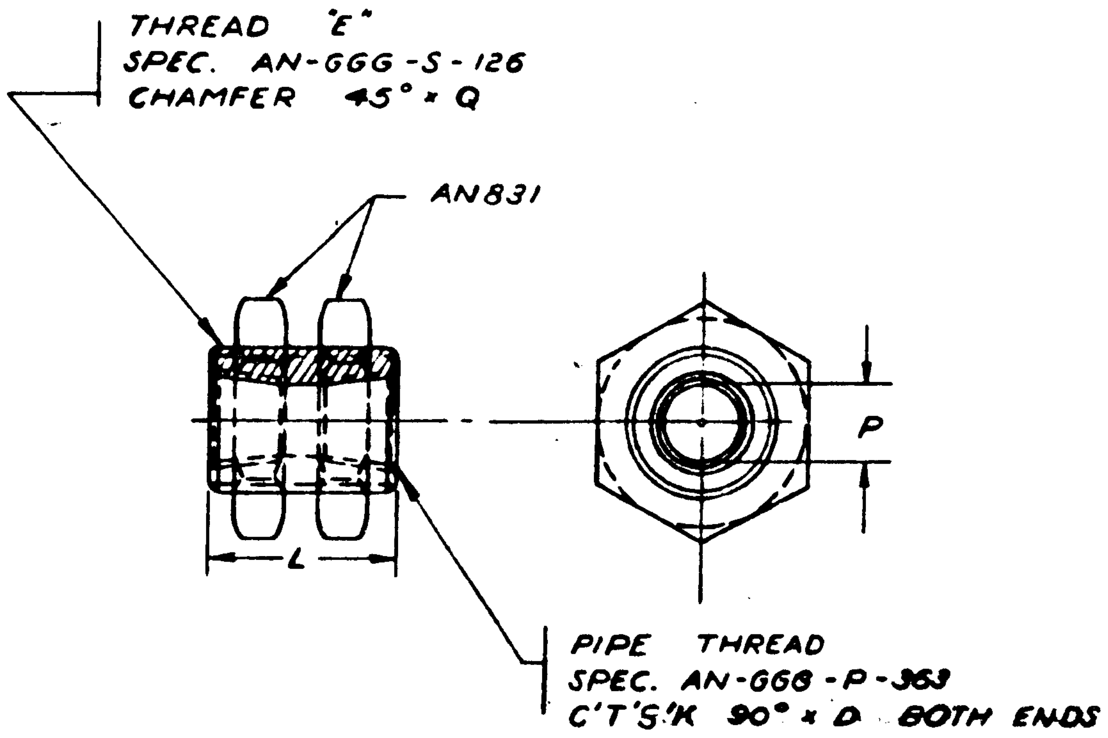
NAME SPACER ENGINE CONTROLS-MIXTURE CONTROL UNIT

OPP. HAND NONE

DWG. SIZE D — 28P1245

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

LET	ALTERATION	DATE	BY
G	TRACED NO WT. CHG.	10/20/43	[illegible]



-DASH NO. AL. AL.	BRONZE	P.T. N	THD. E NF-3	L	P	D	Q	NUT (REF.) BRONZE	AL. ALLOY
2D	2	1/8	3/4-16	7/8	.310 .320	13/32	3/64	-8B	AN831-8D
4D	4	1/4	7/8-14	1 1/8	[illegible]	9/16	1/16	-10B	-10D
6D	6	3/8	1 1/16-12	1 1/4	[illegible]	11/16	1/16	-12B	-12D
8D	8	1/2	1 5/16-12	1 5/8	[illegible]	13/16	1/16	-16B	-16D
12D	12	3/4	1 5/8-12	1 3/4	[illegible]	1-1/16	5/64	SEE NOTE -20B	-20D
16D	16	1	1 7/8-12	2	[illegible]	1-5/16	5/64	-24B	-24D
20D	20	1 1/4	2 1/4-12	2-1/8	[illegible]	1-9/16	5/64	-28B	-28D
24D	24	1 1/2	2 1/2-12	2 1/4	[illegible]	1-13/16	5/64	-32B	-32D

AL. ALLOY, SPEC. QQ-A-[illegible] COND. [illegible]
BRONZE, SPEC. QQ-B-721, CLASS A, 1/2 H

FINISH:
AL. ALLOY PARTS, ANODIZE, SPEC. AN-QQ-A-696.
BRONZE PARTS, CAD. PLATE

DIMENSION LIMITS:
FRACTIONS: ± 1/64
DECIMALS: ± .010

NOTE — BRONZE - QQ-B-721, CLASS A, 1/2 H
(USE NUT SIMILAR TO AN831 SERIES
EXCEPT FOR USE OF NOTED MAT'L)

DASH NO.	MODEL	NEXT ASSY.	NO.
-4D	PBY-5A	[illegible]	2
-4D	PBY-5	[illegible]	2
-2D	PBY-5	[illegible]	1
-2D	PBY-5	28P6837	2
-4D	PBY-5A	[illegible]	4
-4D	PBY-6	[illegible]	2
-4D	PBY-6	[illegible]	3
-2D	PBY-5	28P3010	4
-4D	[illegible]	[illegible]	4
-4D	PBY-5A	[illegible]	4
-4D	PBY-5	[illegible]	2

REQUIREMENTS FOR AIRPLANE

REPLACES 28P5166 5-2-42 — CALC. WT.
REPLACED BY — ACT. WT.
NOTED — SCALE NONE

PART No.	STOCK	MATERIAL	SPEC.
-0	NOTED	NOTED	NOTED

PARTS LIST FOR ASSY. — REQ. -0, -2, -3, -4, -5

		DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.
A C		VOIMAS	J.C.W.	GERBER		GRONDAHL	BUCK
NONE (HEAT TREAT)	NOTED (FINISH)	5-2-42	5-2-42		J.R.M.		VOLD

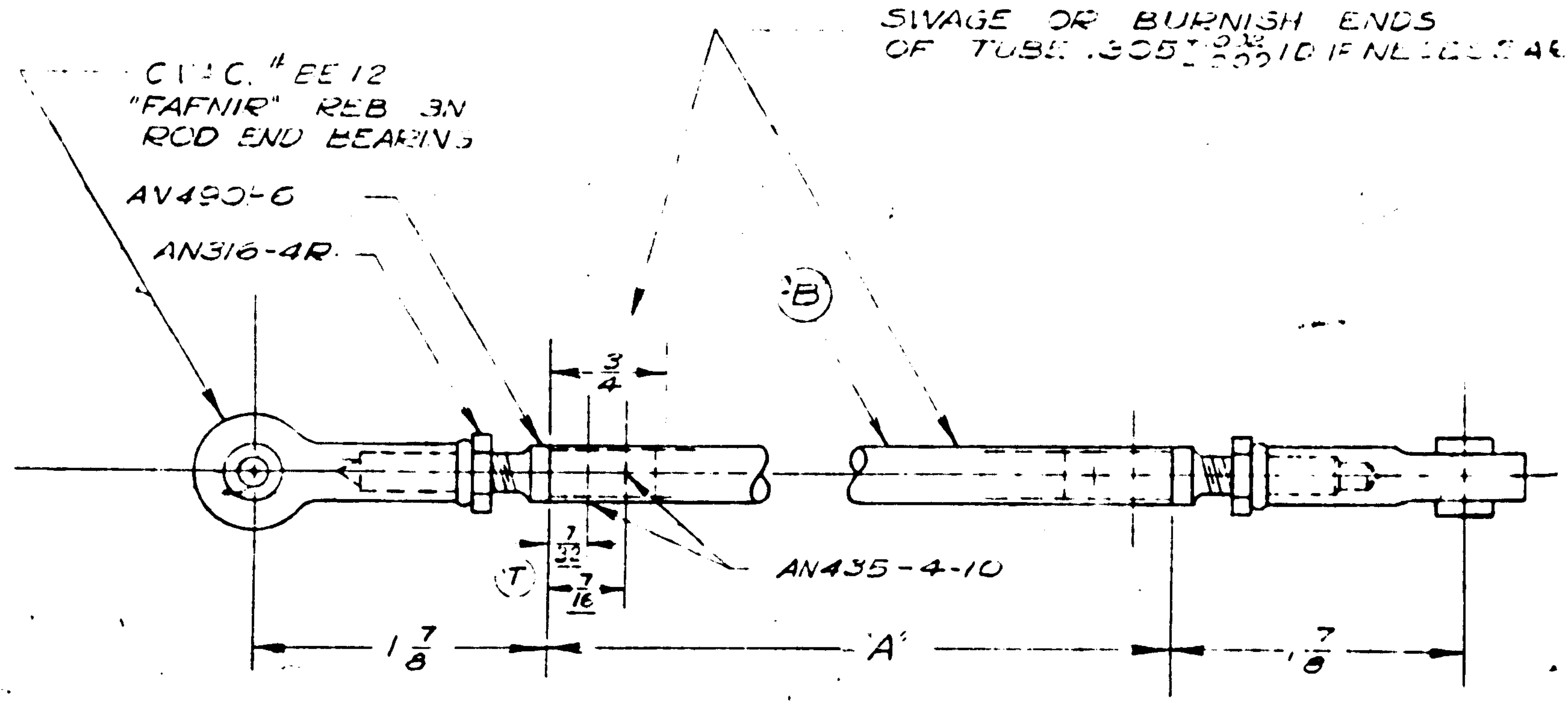
NAME SPECIAL BULKHEAD FITTING

DWG. SIZE D — 28P5166

R 9919[illegible]

LET	ALTERATION	DATE	BY
R	TRACED. NO WT CHG.	8-4-43	MEADOWS
S	CREATED -35 ASSEM. FOR MCR789-9-10-11-12 WT CHG +.24	8-9-43	MEADOWS
T	DIMS. 7/16 WAS 1/2 & 7/32 WAS 1/4 NO WT. CHG.	11-3-43	JORGENSEN

MCR 129-9-10-11-12



ASSEM	TUBE "B"	LENGTH "A"	USE	CALC WT.
[illegible]	-32	[illegible]	[illegible]	.20
[illegible]	-23	5	INTERCOOLER MOTOR	.23
-27	-22	3 1/2	" "	.21
-26	-21	9 3/4	" "	.27
-25	-20	5	INTERCOOLER MOTOR	.23
-19	-16	3 17/32	CARB-AIR RH OUTBD ONLY	.21
-17	-18	5 15/16	MIXTURE RH OUTBD ONLY	.23
-11	-13	8 1/8	RH FLAPS	.26
-10	-12	7	LH FLAPS	.25
-5	-9	7 3/16	CARB. HEAT	.25
-4	-8	4 11/32	CARB HEAT	.22
-3	-7	6 11/32	MIXTURE	.24

	ASSY DASH No.	MODEL	NEXT ASSY.	REQ.
MCR129-9	-35	B24DHEK	32P1852	1
MCR 29-12	-35	B24DHEK	32P1848	1
MCR 129-10	-35	B40HEK	32P1829	1
MCR 29-11	-35	B40HEK	32P1800	1
	[illegible]	[illegible]	[illegible]	[illegible]
	-27	[illegible]	[illegible]	2
	-26	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	-19	[illegible]	[illegible]	1
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	-10	28-5	29F5005	2
	-10	28-5	29F5005	2
	-10	[illegible]	28P2005	2
	-5	XB-48-48B-24	32P006	4
	-4	B-24	32P007	4
	-4	XB-24 B-24A	32P007	4
	-3	LB-30	32F5007	4
	-3	B-24	32P007	4
	-3	XB-24 B-24A	32P007	4

REQUIREMENTS PER AIRPLANE

PART No.	STOCK	MATERIAL	SPEC.
[illegible]	EE 3	"FAFNIR" REB 3N	
AN490-6			
AN435-4-10			
AN316-4R			
-36	3/8 x .035 x 2 5/16	CM STL TUBE	[illegible]
-23	3/8 x .035 x 6 1/8	CM STL TUBE	[illegible]
-22	3 5/8		
-21	8 7/8		
-20	5 1/8		
-18	3/8 x .035 x 6 1/8	CM STL TUBE	[illegible]
-16	3 5/8		
-13	8 1/4		
-12	7 1/8		
-9	7 5/16		
-8	4 1/2		
32P080-7	3/8 x .035 x 6 1/2	CM STL TUBE	[illegible]

PARTS LIST PER ASSY.

REPLACES 32P089 12-5-40 — NOTED CALC. WT.

REPLACED BY — ACT. WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 12"=1'-0"

STAMP PART NUMBER WHERE SHOWN

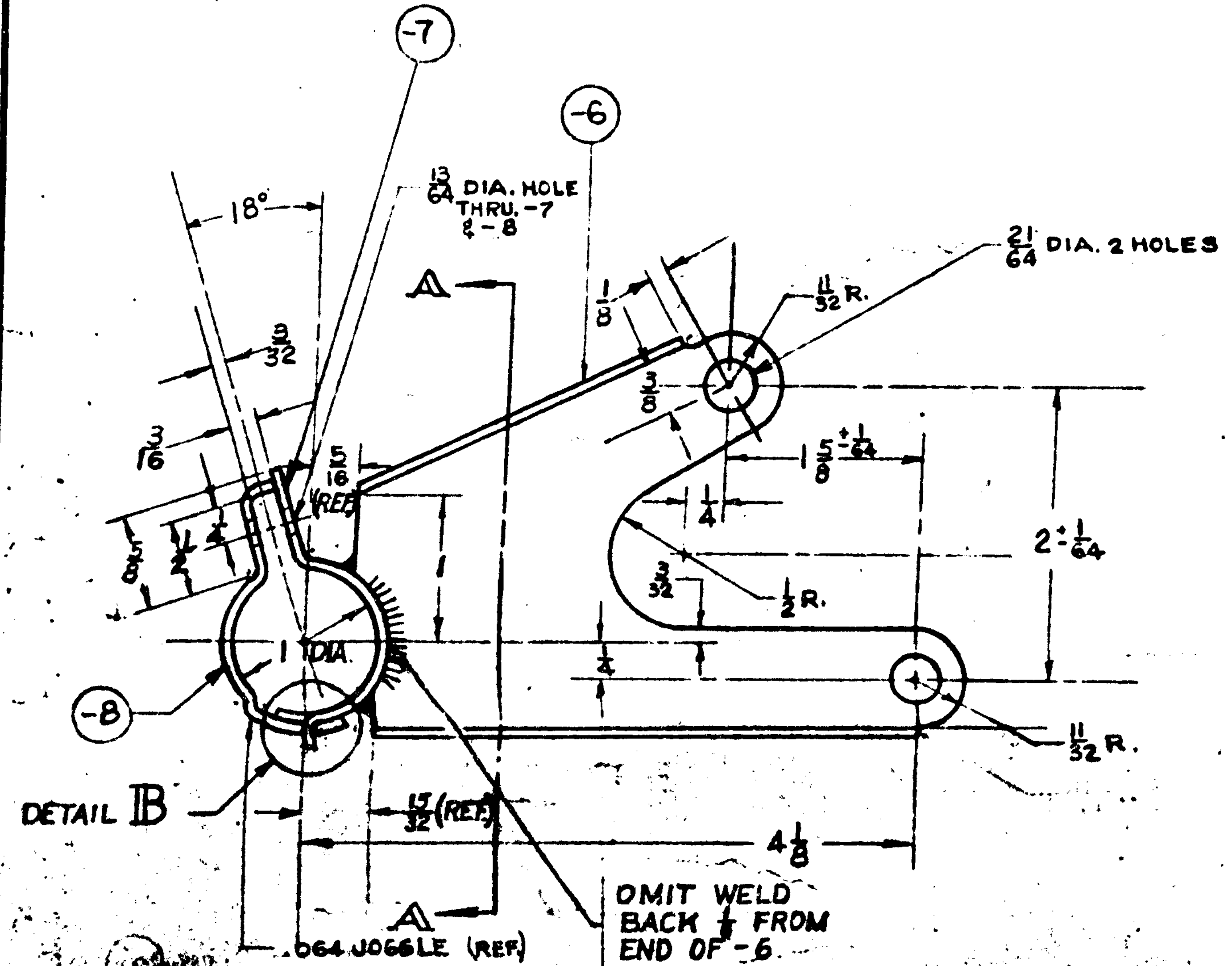
A C	NONE	C.A.C.-ZF-32-001	12-5-40
NAVY	NONE	C.A.C.-ZF-32-001	SINGLE
HEAT TREAT		FINISH	DRAFT. CHECK STRUCT MAT.

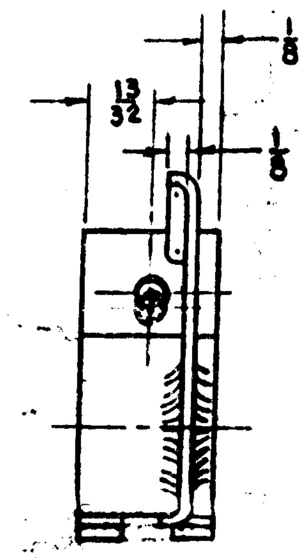
NAME **ROD ASSEMBLY ENGINE CONTROL**

D 32P08[illegible]

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION, SAN DIEGO, CALIF.

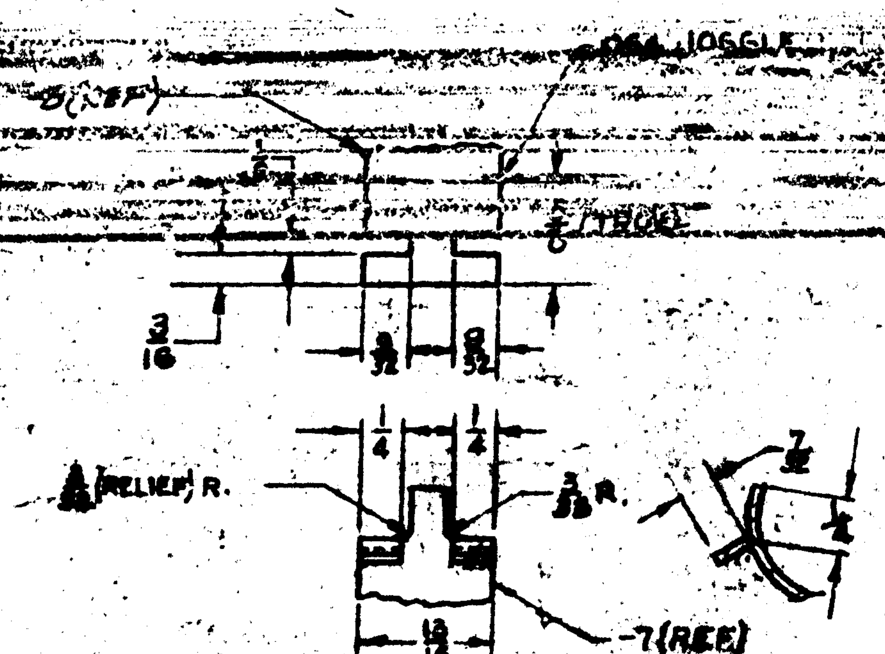
LET	ALTERATION	DATE	BY
K	TRACED NO. WT. CHG.	8-18-43	ECHOLS





SECTION A-A

NOTE:
1. FOR -7 & -8 USE SAME TOOLS AS USED ON 32P454 -8 & -9 FOR BLANKING END NOTCHES.
2. ALL BEND & RELIEF RADII $\frac{1}{16}$ UNLESS OTHERWISE SPECIFIED



DETAIL B

1-35 & 38-42
37 & 43 & ON.

DASH	MODEL	NEXT ASSY.	NO.
	PBY-5A	28P5127	2
-8	PBY-5A	[illegible]	2
-7	PBY-5A	[illegible]	2
	PBY-5A	[illegible]	2
-8	28-5AMN	[illegible]	2
-7	28-5AMN	[illegible]	2
	28-5AMN	[illegible]	2
	28-5AMC	[illegible]	2
-8	28-5AMC	[illegible]	2
-7	28-5AMC	[illegible]	2
	28-5MC	[illegible]	2
-8	28-5MC	[illegible]	2
-7	28-5MC	[illegible]	2
	28-5MN	[illegible]	2
-8	28-5MN	[illegible]	2
-7	28-5MN	[illegible]	2
	28-5MA	[illegible]	2
-7	28-5MA	[illegible]	2
-8	28-5MA	[illegible]	2
	28-5ME	[illegible]	2
-8	PBY-5A	[illegible]	2
-7	PBY-5A	[illegible]	2

DASH	MODEL	NEXT ASSY.	NO.
-8	LB-30	32P414	4
-7	LB-30	32P414	4
-8	LB-30	32P272-2	4
-7	LB-30	32P272-2	4
-8	B24A	32P414	4
-7	B24A	32P414	4
-8	B24A	32P272-2	4
-7	B24A	32P272-2	4
-8	B24	32P414	4
-7	B24	32P414	4
-8	B24	32P272-2	4
-7	B24	32P272-2	4

REQUIREMENTS PER AIRPLANE

32P271-$\frac{1}{8}$" SIZE

1/32 & NOTE

$\frac{1}{4}$" = 1'0"

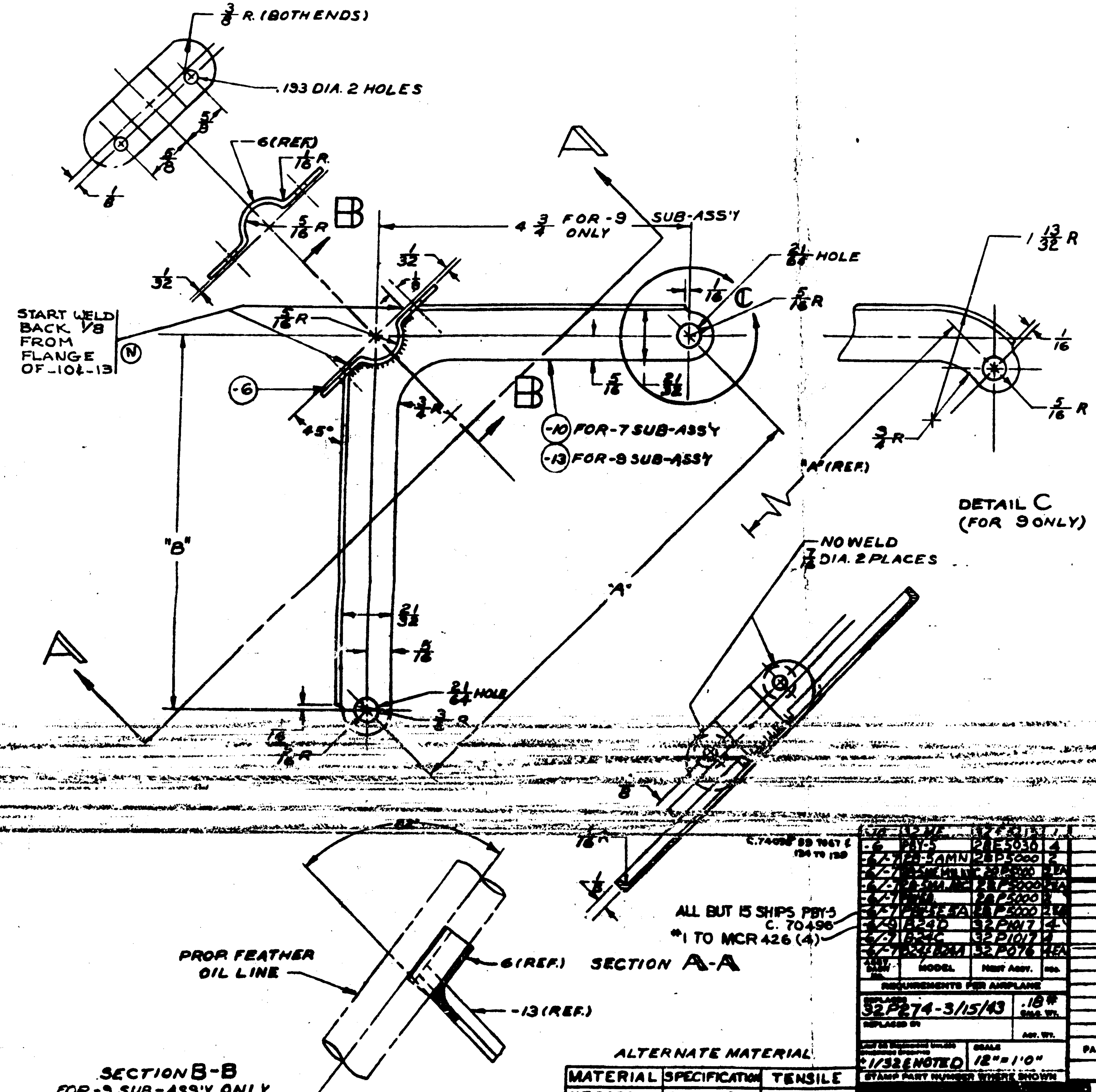
AS NORMALIZED C.(A.C. ZF-32-001

NAVY

COPY No. 3

E.O.B22014

LET	ALTERATION	DATE	BY
M	TRACED. NO WT. CHG.	6-12-43	[illegible]
N	ADDED DIM 1/8. NOTE " START WELD BACK 1/8 FROM FLANGE OF -10 & -13" WAS "WELD". NO WT. CHG.	1-19-43	[illegible]



DASH NO.	"A"	"B"
-7	[illegible]	4 1/2
-9	[illegible]	4 [illegible]

ALTERNATE MATERIAL

MATERIAL	SPECIFICATION	TENSILE
NE8630	AN-S-12	90,000-125,000 PSI
CHROME-MOLY	AN-QQ-S-685	90,000-125,000 PSI
SAE 1025	AN-QQ-S-646	55,000-70,000 PSI
SAE 1020	AN-QQ-S-646	55,000-70,000 PSI

REQUIREMENTS PER AIRPLANE

ASSY. DASH NO.	MODEL	NEXT ASSY.	NO.
[illegible]	[illegible]	[illegible]	[illegible]
-6	PBY-5	28E5030	4
-6/-7	28-5AMN	28P5000	2
-6/-7	[illegible]	28P5000	2EA
-6/-7	[illegible]	28P5000	2EA
-6/-7	[illegible]	28P5000	2
-6/-7	[illegible]	28P5000	2EA
-6/-9	B24D	32P1017	4
-6/-7	B24C	32P1017	4
-6/-7	[illegible]	32P076	4EA

REPLACES 32P274-3/15/43 — .18# CALC. WT.

REPLACED BY — ACT. WT.

±1/32 EXCEPT AS NOTED — SCALE 12" = 1'0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 LH	-0 RH	-2 LH	-2 RH	-3 LH	-3 RH	-4 LH	-4 RH	-5 LH	-5 RH
-6	.063 x 7/8 x 2 1/2	NOTED	NOTED	1									
-13	.063 x 5 3/4 x 5 7/8	NOTED	NOTED	1									
-9	SUB-ASS'Y												
-10	.063 x 5 1/4 x 5 7/8	NOTED	NOTED	1									
-6	.063 x 7/8 x 2 1/2	NOTED	NOTED	1									
-7	SUB-ASS'Y												
-9	SUB-ASS'Y												
-7	SUB-ASS'Y												
-6	.063 x 7/8 x 2 1/2	NOTED	NOTED										

PARTS LIST PER ASSY

AC NOTED	CAC-ZF-[illegible]-001	HESS	[illegible]	[illegible]	G.F.	[illegible]	F.W.F.
NAVY		11-16-39	11/[illegible]		R.W.S.		[illegible]
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

NAME BRACKET ASSEM. PROP. CONTROL-REAR

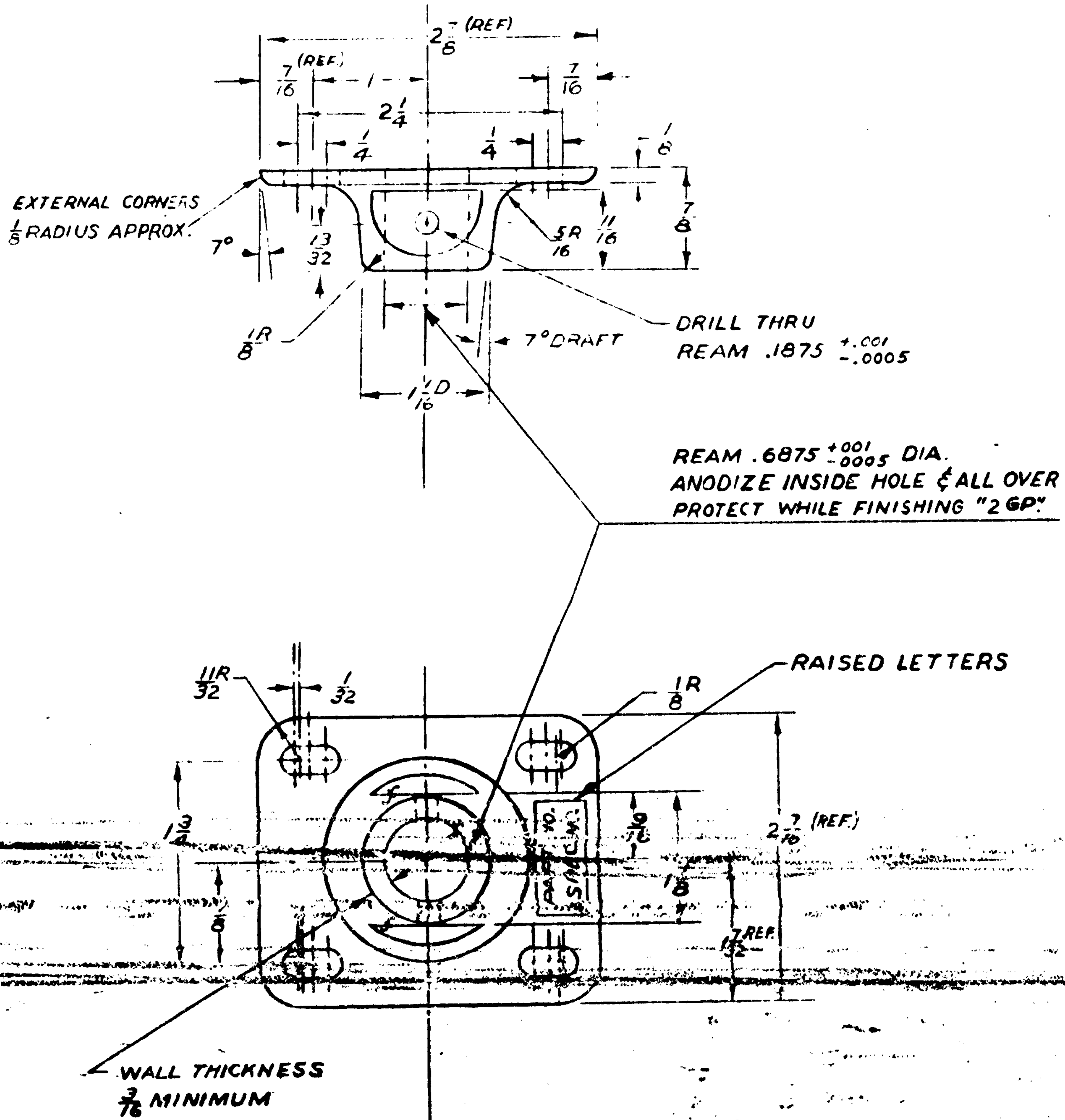
OPP. HAND

DWG. D 32P274

CONSOLIDATED VULTEE AIRCRAFT CORP. — SAN DIEGO DIVISION — SAN DIEGO, CALIF.

32P274

LET	ALTERATION	DATE	BY
5	TRACED. NO WT. CHG.	10-1-45	[illegible]



ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
	[illegible]	[illegible]	1
	28-5 [illegible]	[illegible]	[illegible]
	28-5AMC	28T5096	1
	28-5AMC	28T5001	2
	28-5ME&MN	28T5096	1EA
	28-5ME&MN	28T5001	2EA
	28-5MA&MK	28T5096	1EA
	28-5MA&MK	28T5001	2EA
	PBY-5,5A&5B	[illegible]	1EA
	PBY-5,5A&5B	28T5001	2EA
	PBY-4	28T2001	
	PBY-4	28T2005	
	PBY-3	28T2001	
	PBY-3	28T2005	
	PBY-2	28T2001	
	PBY-2	28T2005	
	PBY-1	28T1005	

REQUIREMENTS PER AIRPLANE

REPLACES 28T1031-3-1-36 | .16 CALC. WT.

REPLACED BY | ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED: FORG. ± 1/32, MACH ±.010 | SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	LH REQ. -0	RH REQ. -0	LH REQ. -2	RH REQ. -2	LH REQ. -3	RH REQ. -3	LH REQ. -4	RH REQ. -4	LH REQ. -5	RH REQ. -5
	FORGING	AL-AL.	QQA367-6										

PARTS LIST PER ASSY.

A C		2-7-36	Anderson	Gunn		L.C.W.	
NAVY 44000 % "	Z + P + 2 GP	ZERBE	3-10-36	3-6-36		3-13-36	
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

FINISH CODE

Z	ANODIC TREATMENT
P	P-27 PRIMER
GP	GREEN PRIMER
[illegible]	[illegible]UM PLATE

NAME SUPPORT-TAIL-HINGE LOWER

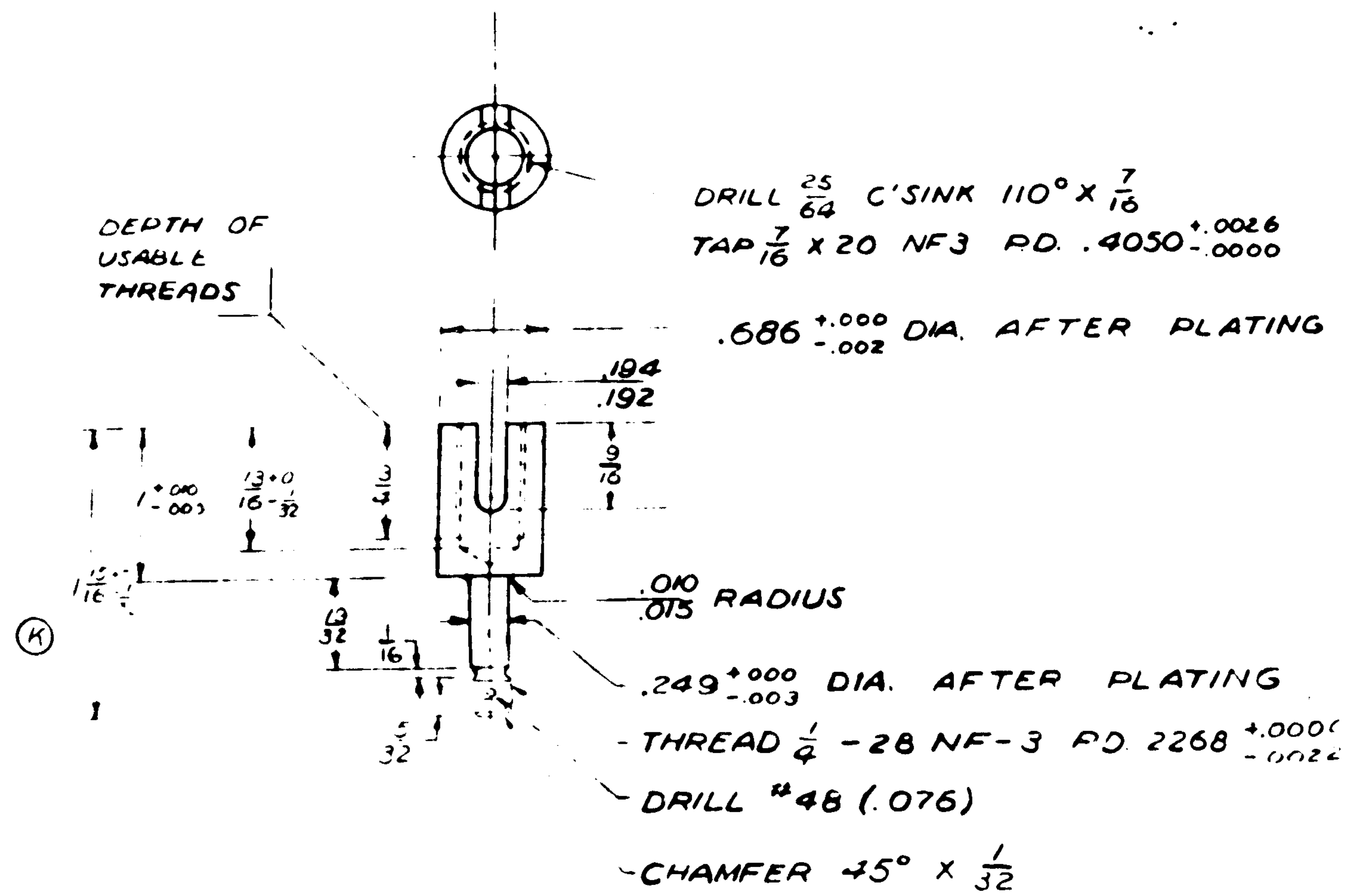
OPP. HAND

DWG. SIZE D 28T1031

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

28T1031

LET	ALTERATION	DATE
J	TRACED NO WT. CHG.	9-30-43
K	DIM 1 13/16" ±1/32 WAS 1 15/16 REMOVED DIM 15/16" ±1/32 NO WT CHG	



FINISH CODE	
Z	ANODIC TREATMENT
P	[illegible]
GP	[illegible]
C	CADMIUM PLATE

	MODEL	NEXT ASSY	REQ
	28-5AMN	28T2050	3
	PBY-5B		3
	28-5AMC		3
	28-5MN		3
	28-5ME		3
	28-5MC		3
	28-5MA		3
	PBY-5-5A		3EA
	PBY-2-3-4	28T2050	3EA

REQUIREMENTS PER AIRPLANE

REPLACES 28T2024 9-25-36 — .07 CALC WT

REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC
-1	2 1/2 X [illegible] ROD	C.M. STEEL	AN-QQ-S-684

PARTS LIST PER ASSY: -0 -2 -3 -4 -5

HEAT TREAT: NAVY 125,000 TO 145,000 P.S.I. — FINISH: C

STUTZKE 9-25-36 — L.C.W. 9-25-36

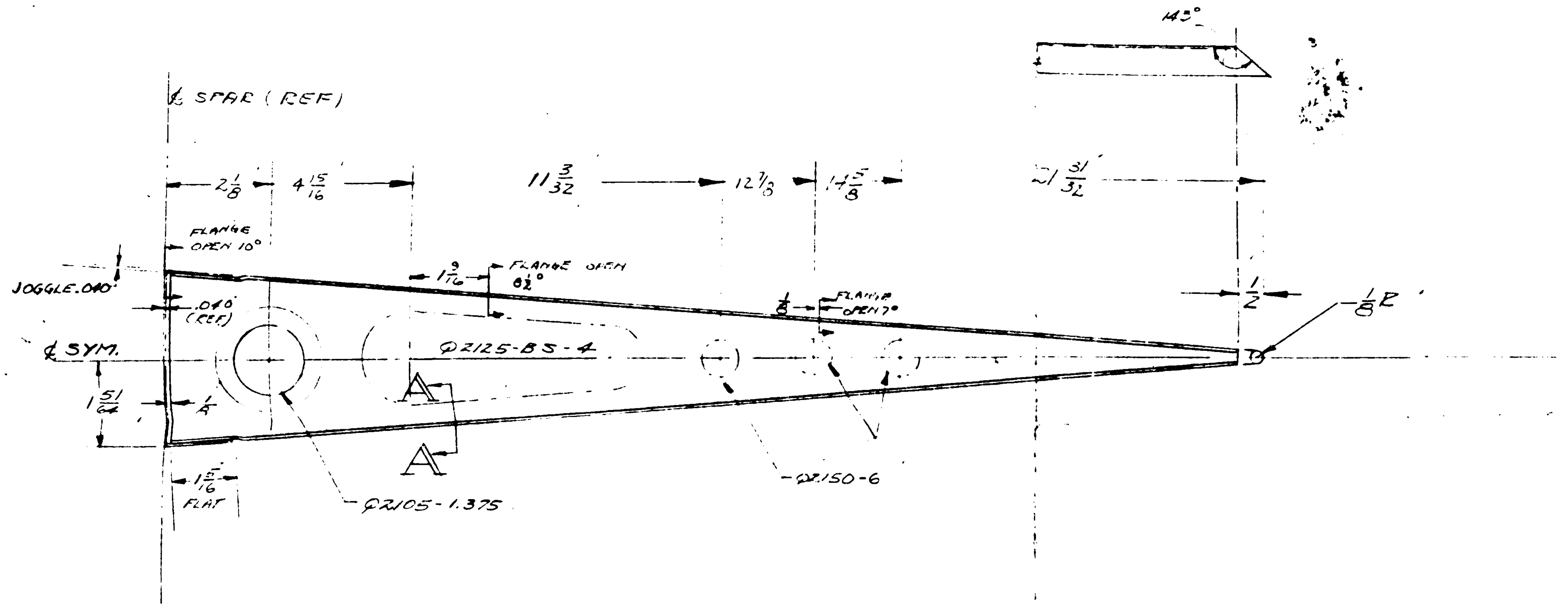
ENG. FILE

NAME: SHAFT-TAIL-HINGE BEARING

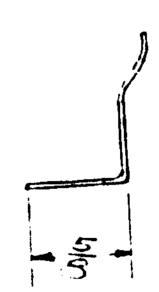
CONSOLIDATED VULTEE AIRCRAFT CORP — SAN DIEGO DIVISION — SAN DIEGO CALIF

D 28T2024

28T2024 R



NOTE: ALL HOLES & BEADS TO FLANGE... OPPOSITE TO FLANGES



SECTION A-A
SCALE 12"-1'-0"

LET	ALTERATION	DATE	BY

ASSY DASH No.	MODEL	NEXT ASSY	REQ
	PBY-5	28T5705	1

REQUIREMENTS PER AIRPLANE

REPLACES — CALC WT

REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32

SCALE 6"=1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 LH/RH REQ.	-2 LH/RH REQ.	-3 LH/RH REQ.	-4 LH/RH REQ.	-5 LH/RH REQ.
-0	.020×9×26	ALC 24SO	47A8 A	1				

PARTS LIST PER ASSY.

A C		DRAFT	CHECK	STRUCT.	MAT	APPROV.	ENG
NAVY SR53	Z-P-2AP	Rosenbaum					
HEAT TREAT	FINISH						

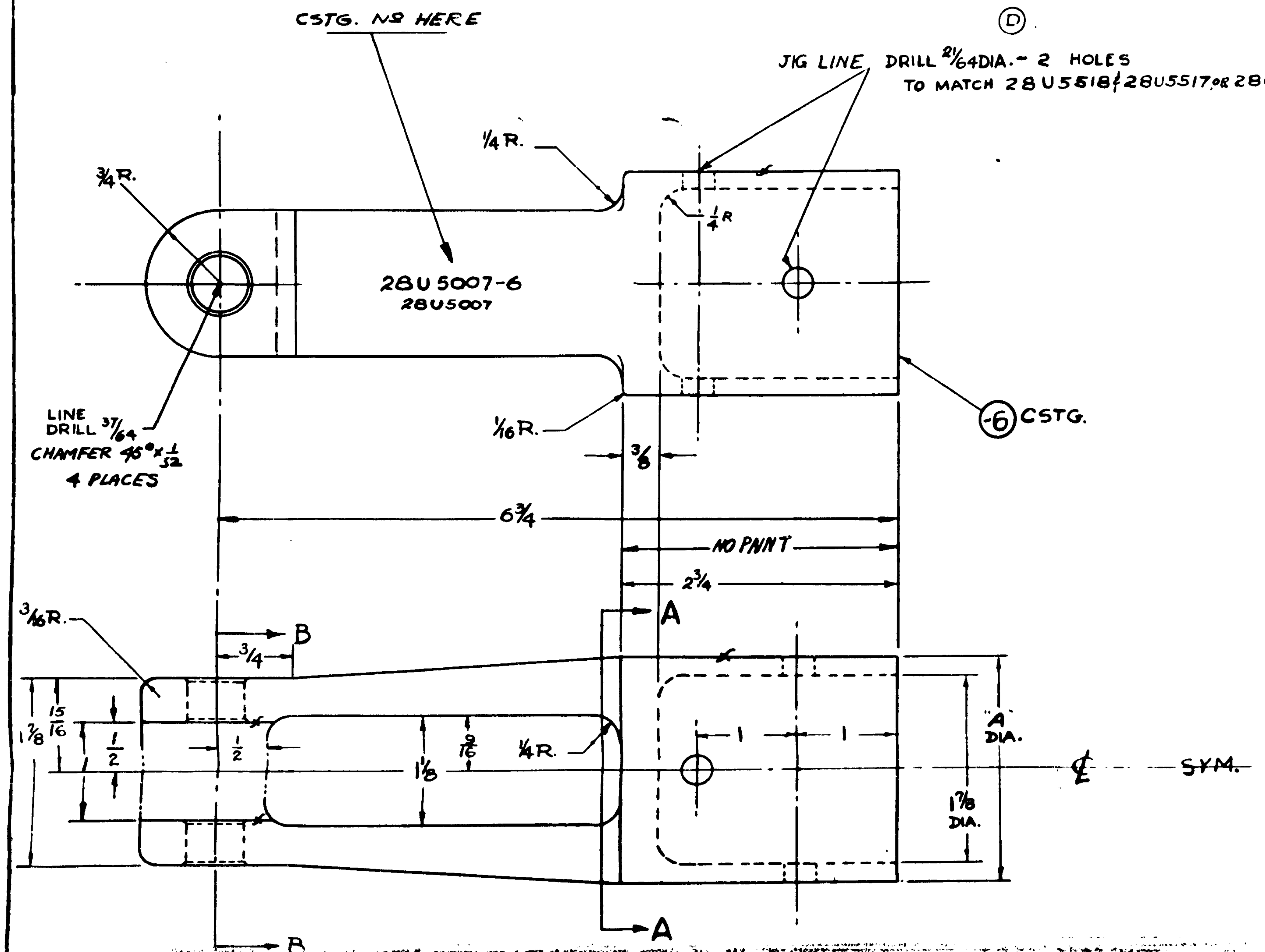
NAME RIB - RUDDER T.E STA 120 5/8

OPP HAND NONE

DWG. SIZE D 28T5019

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF

LTR	ALTERATION	DATE	
A	ADDED NEW NEXT ASS'Y. AND NEW DASH NO.	9-5-41	HART
B	DIM. "A" ON -7 WAS 2.406 +.002 -.003	9-22-41	HART
C	ADDED XB-32 & YB-32 CONTRACT NOTE. CHANG REQ'MT FROM 1 PER AIRPLANE TO ONE PER CONTRACT	12-19-41	Brady
D	CHANGED NOTE "JIG LINE ... 28U5034. (REF.)" WAS "JIG LINE DRILL 21/64 DIA. 2 HOLES, TO MATCH HOLES IN 28U5034.(REF)" ADDED REQ. FOR 28-5-AMN (NO WT. CH'G)	2-15-43	



NOTE

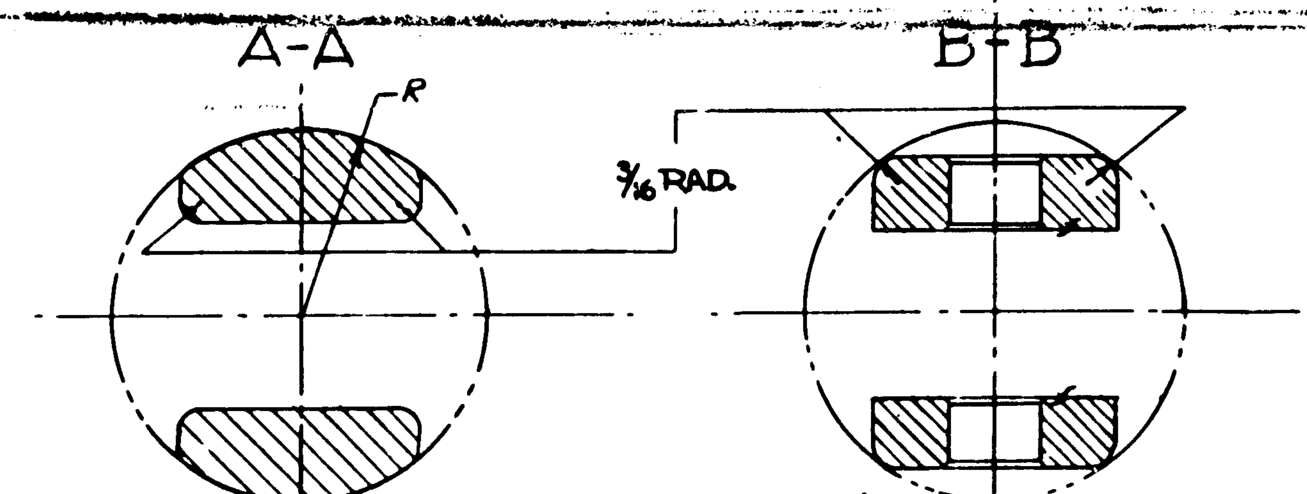
CASTING TOLERANCE ± 1/32

MACH. TOLERANCE ± .010

MATL. - SPEC.
TO CONFORM TO 49S1 NAVY SPEC,
EXCEPT, MATL. TO BE C.M. STEEL, MIN.
ULT. TENSILE STRENGTH OF 100,000 P.S.I. MIN.

BREAK ALL SHARP EDGES

DRAWING NUMBER	DIMENSION A
28U5007-0	2.300 ±.005
-7	2.450 +.001 -.003



#1 REQ'D. PER CONTRACT
PER A.C. SPEC. R-...

ASSY DASH NO.	MODEL	NEXT ASSY	REQ.
-0	28-5-AMN	28U5006	1
-7	YB-32	33U600	#
-7	XB-32	33U600	#
-0	PBY-5A	28U5006	1
-0	28-5-AMC	28U5006	1
-0	OA-10	28U5006	1
-0	XPBY-5A	28U5006	1

REQUIREMENTS PER AIRPLANE

REPLACES 2.0

-7 MAKE FROM -6

				REQ -0	REQ -2	REQ -3	REQ -4	REQ -5
-6	NOTED		NOTED	1				

PARTS LIST PER ASSY

LIMITS ON DIMENSIONS UNLESS OTHERWISE SPECIFIED: NOTED — SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

HEAT TREAT: NOTED — FINISH: C-P & NOTED

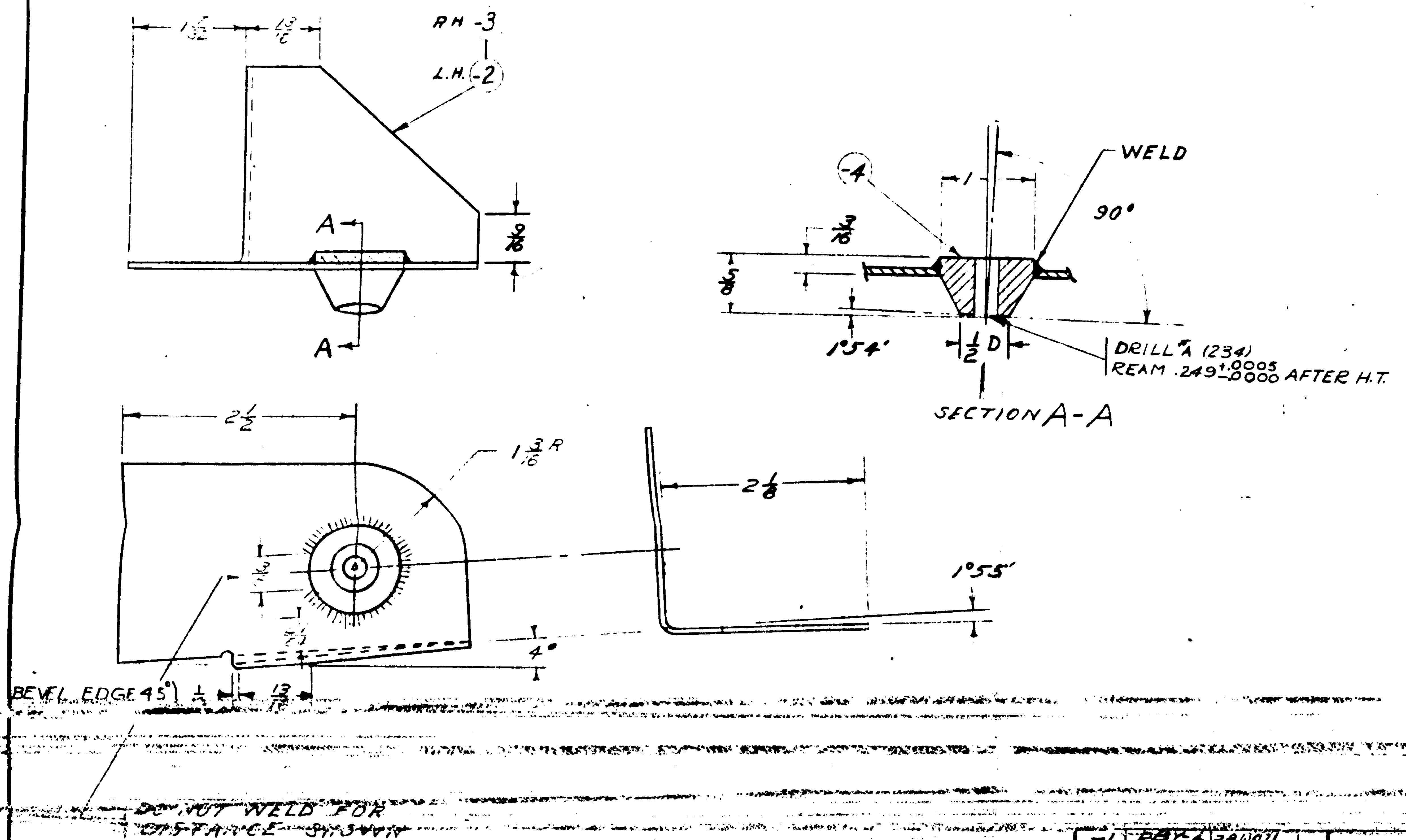
10-11-40 T.G.P. — NOVAK J.F.R. — J.W.L.
D.L. HAMMOND — ELDRED — GREEN

NAME: CONNECTOR - N.L.G. - TOWBAR

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.

SIZE D — DWG. NO. 28U5007 — R

LET	ALTERATION	DATE	BY
H	TRACED; NO WT. CHANGE	[illegible]	[illegible]



ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
-1	PBY-4	28W071	
	PBY-4	28W071	
-1	PBY-3	28W071	
	PBY-3	28W071	
-1	PBY-2	28W071	
	PBY-2	28W071	
-1	PBY-1	28W071	
	PBY-1	28W071	
-1	XP3Y-1	28W071	
	XP3Y-1	28W071	

REQUIREMENTS PER AIRPLANE

DASH No.	MODEL	NEXT ASSY	REQ
-1	ALL 28-5'S	28W071	1 EA
-1	ALL 28-5'S	28W071	1 EA
-1	PBY-5B	28W071	1
	PBY-5B	28W071	1
-1	PB-5 & 5A	28W071	1 EA
	PBY-5 & 5A	28W071	1 EA

REPLACES 28W072 [illegible] — .900 CALC. WT.
REPLACED BY — ACT. WT.
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± .010 — SCALE 12"=1'0"
STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 LH	-0 RH	-2 LH	-2 RH	-3 LH	-3 RH	-4 LH	-4 RH	-5 LH	-5 RH
-4	1" BAR 3/4 long	C.M. STL.	AN99-S-684	1	1								
-3	.063x2 3/8 x 4	C.M. STL	AN99-S-685		1								
-2	.063x2 3/8 x 4	C.M. STL	AN99-S-685	1									

PARTS LIST PER ASSY.

GP-GREEN PRIME

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

ENG. FILE

AC — NAVY 120,000 TO 145,000 #/IN.²	C-2AD FOR PBY-1, C-P-61 FOR PBY-2	[illegible]	[illegible]	HB		L.C.W.
HEAT TREAT	FINISH	5-3-34	[illegible]			[illegible]
		DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

NAME BRACKET-WING AILERON-HINGE-OUTER

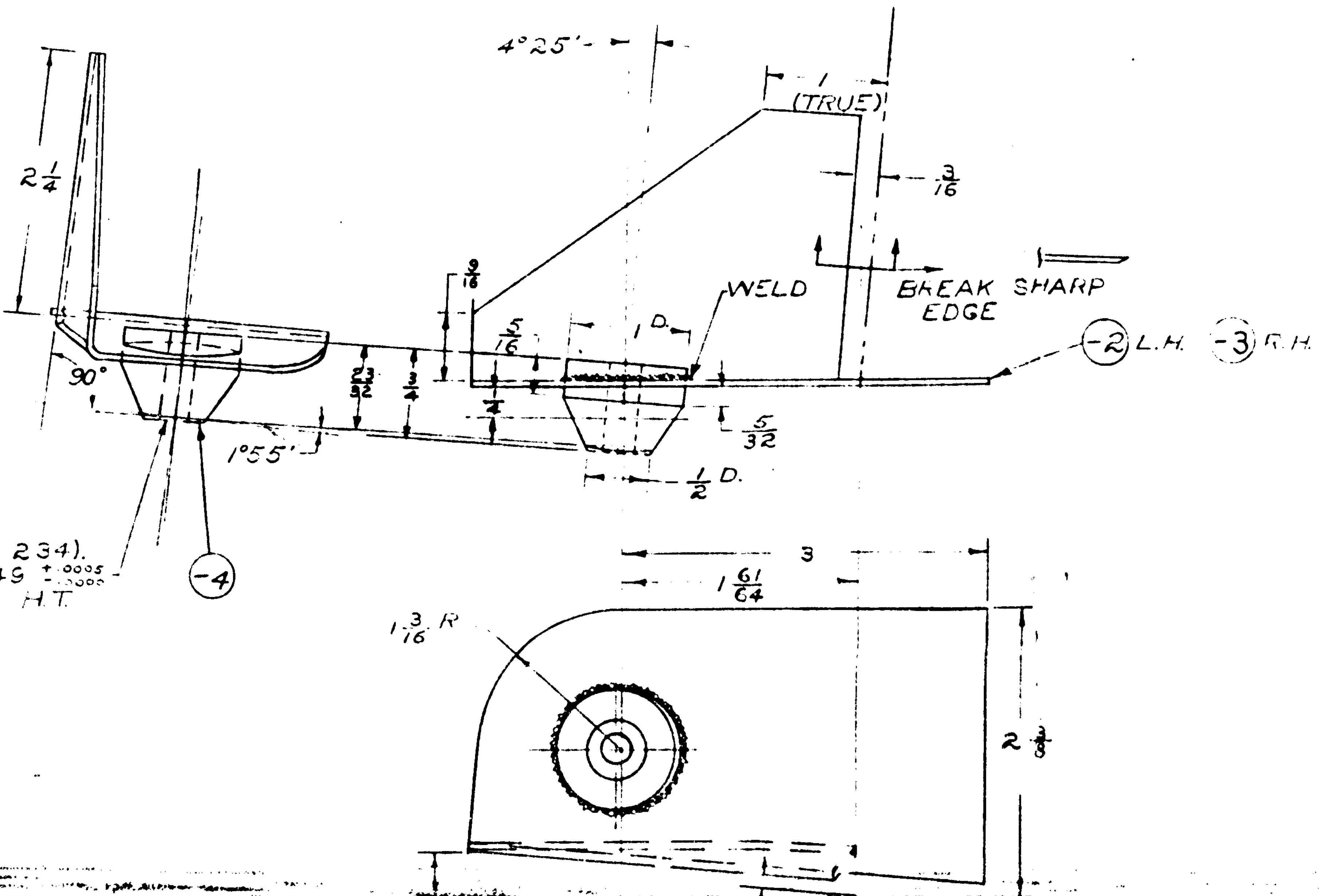
OPP. HAND 28W072-1 R.H.

DWG SIZE D — 28W072

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

R 28W072

LET	ALTERATION	DATE	BY
J	TRACED NO WT. CHG.	10/1/43	[illegible]



ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ.
-L	PBY-5A [illegible]	28W071	[illegible]
-R	PBY-5	28W071	1
-L	PBY-5	28W071	1
-R	PBY 3&4	28W071	
-L	PBY 3&4	28W2071	
-R	PBY-1&2	28W071	
-L	PBY-2	28W2071	
-L	PBY-1	28W071	
-R	XP3Y-1	28W071	
-L	XP3Y-1	28W071	
-R	ALL 28'S	28W071	1 EA
-L	ALL 28'S	28W071	1 EA

REQUIREMENTS PER AIRPLANE

REPLACES 28W073 (3-8-37) — .357 CALC. WT.

REPLACED BY — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± .010 — SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 LH REQ.	-0 RH REQ.	-2 LH REQ.	-2 RH REQ.	-3 LH REQ.	-3 RH REQ.	-4 LH REQ.	-4 RH REQ.	-5 LH REQ.	-5 RH REQ.
-4	1 DIA x 7/8	C.M. BAR	AN-QQ-S-684	1	1								
-3	.063 x 4 1/2 x 4 3/4	C.M. SHT.	AN-QQ-S-685		1								
-2	.063 x 4 1/2 x 4 3/4	C.M. SHT.	AN-QQ-S-685	1									
-8													

PARTS LIST PER ASSY.

HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.
AC / NAV 120,000 TO 145,000 #/□"	C-P — GP	R. GO [illegible] 3/7/34	ANDERSON 3/5/37	H. B.		L.C.W 10-21-35	

NAME BRACKET WING — AILERON HINGE - INNER

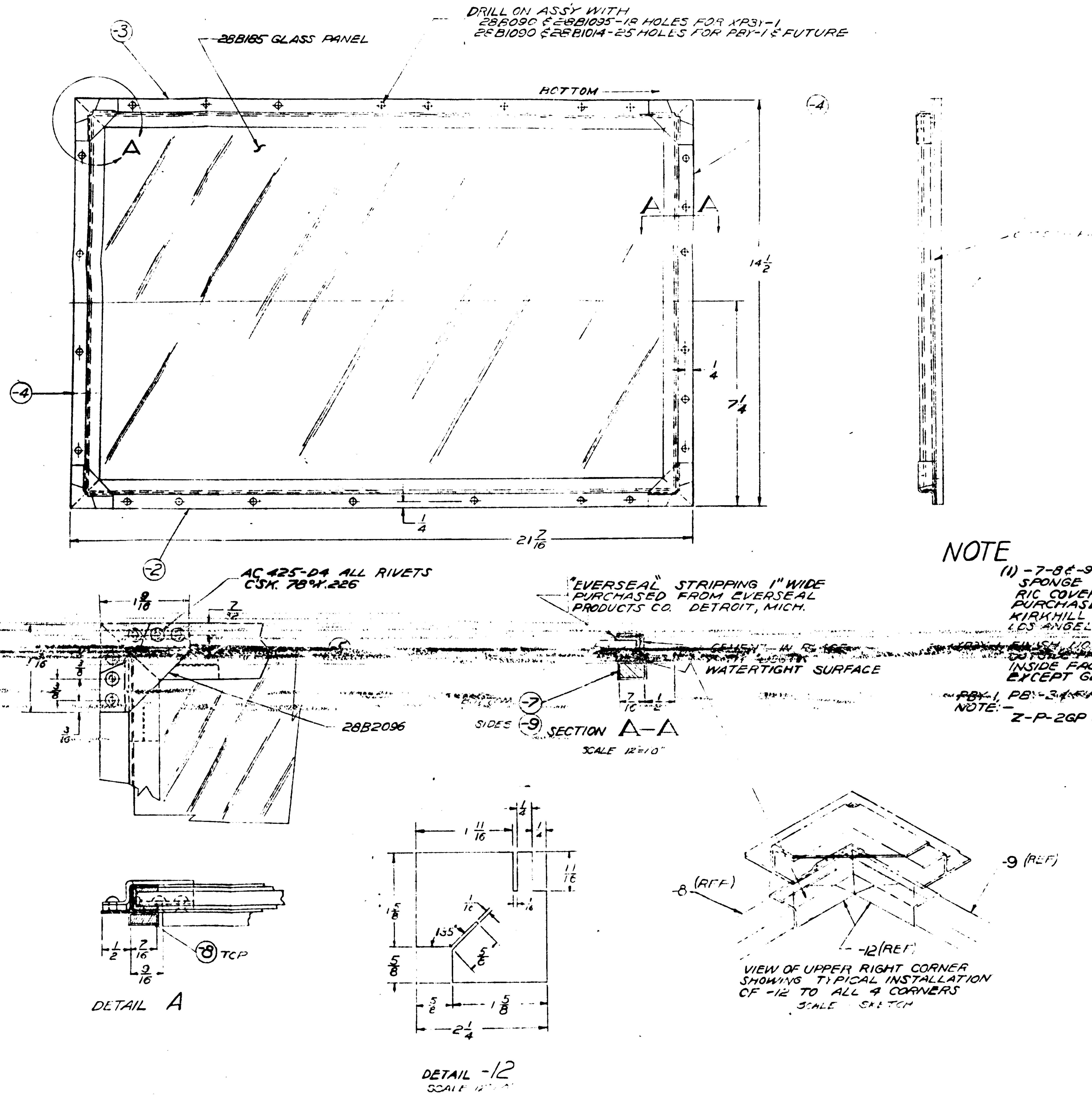
OPP. HAND 28W073-1 R 1

DWG. SIZE D 28W073

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

FIN. / Z / P / GP / C

28W073



NOTE

(1) -7-8 & -9 SYNTHETIC SPONGE OR EQUIV, FABRIC COVERED MAY BE PURCHASED FROM KIRKHILL RUBBER CO LOS ANGELES CALIF

FINISH NOTE: [illegible] OUTSIDE FACE Z-P-[illegible] INSIDE FACE Z-3GP EXCEPT GLASS PANEL

~~PBY-1~~, PBY-3 & FUTURE FINISH NOTE: — Z-P-2GP EXCEPT GLASS

MCR272A-1 * 1 TO MCR272A-1 SHIPS #25 & ON SHIPS #1-25

ASSY DASH No	MODEL	NEXT ASSY	REQ.
	PBY-5A	28B5810	1
	PBY-5A	28B5156	1
	PBY-5	28B5186	1
	PBY-5	28B1014	1
	28-5MN	28B5186	1
	28-5ME	28B5186	1
	28-5MC	28B5186	1
	28-5MA	[illegible]	1
	PBY-5B	[illegible]	1
	28-5AMN	[illegible]	1
	28-5AMC	[illegible]	1
	[illegible]	28B1014	1 EA
	[illegible]	[illegible]	1

REQUIREMENTS PER AIRPLANE

PART No	STOCK	MATERIAL	SPEC.	REQ. -0
AC425 D4				
EVERSEAL STRIPPING .062 X 1 X 68				1
28B185				1
28B2096				4
-9	[illegible]	[illegible]		2
-8	[illegible]	[illegible]		1
-7	[illegible]	NOTED		1
-12	$2\frac{3}{8}$ X $2\frac{3}{8}$	SYN RU SHT	[illegible]	4
-5	.091 X $1\frac{11}{16}$ [illegible]	AL. ALSHT	47A1C-?	4
-4	K-5030 X [illegible]	AL AL EXT	46A9-T	2
-3	K-5030 X 21 9/16	AL AL EXTR	46A9-T	1
-2	K-5030 X 21 9/16	ALM EXTR	46A9-T	1

PARTS LIST PER ASSY.

REPLACES 28B184 OF 3-6-37 — 702 CALC. WT

REPLACED BY — ACT. WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE: 631 C & NOTED

STAMP PART NUMBER WHERE SHOWN

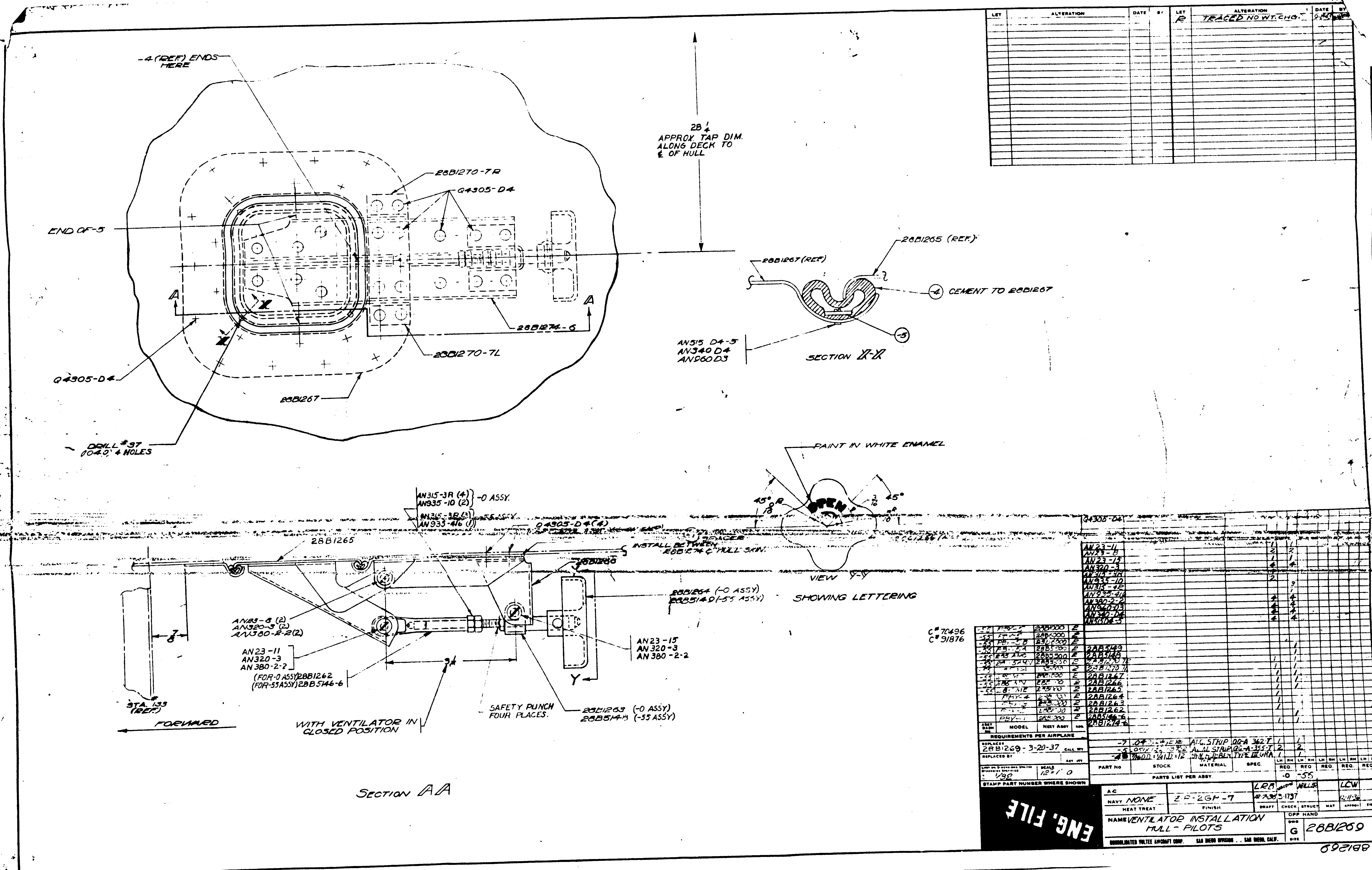
A C — NAVY — HEAT TREAT — FINISH: NOTED — DRAFT — CHECK — STRUCT — MAT — ENG — LCW 5/6/36

NAME: WINDOW - HULL BOMBER'S - ASSEMBLY

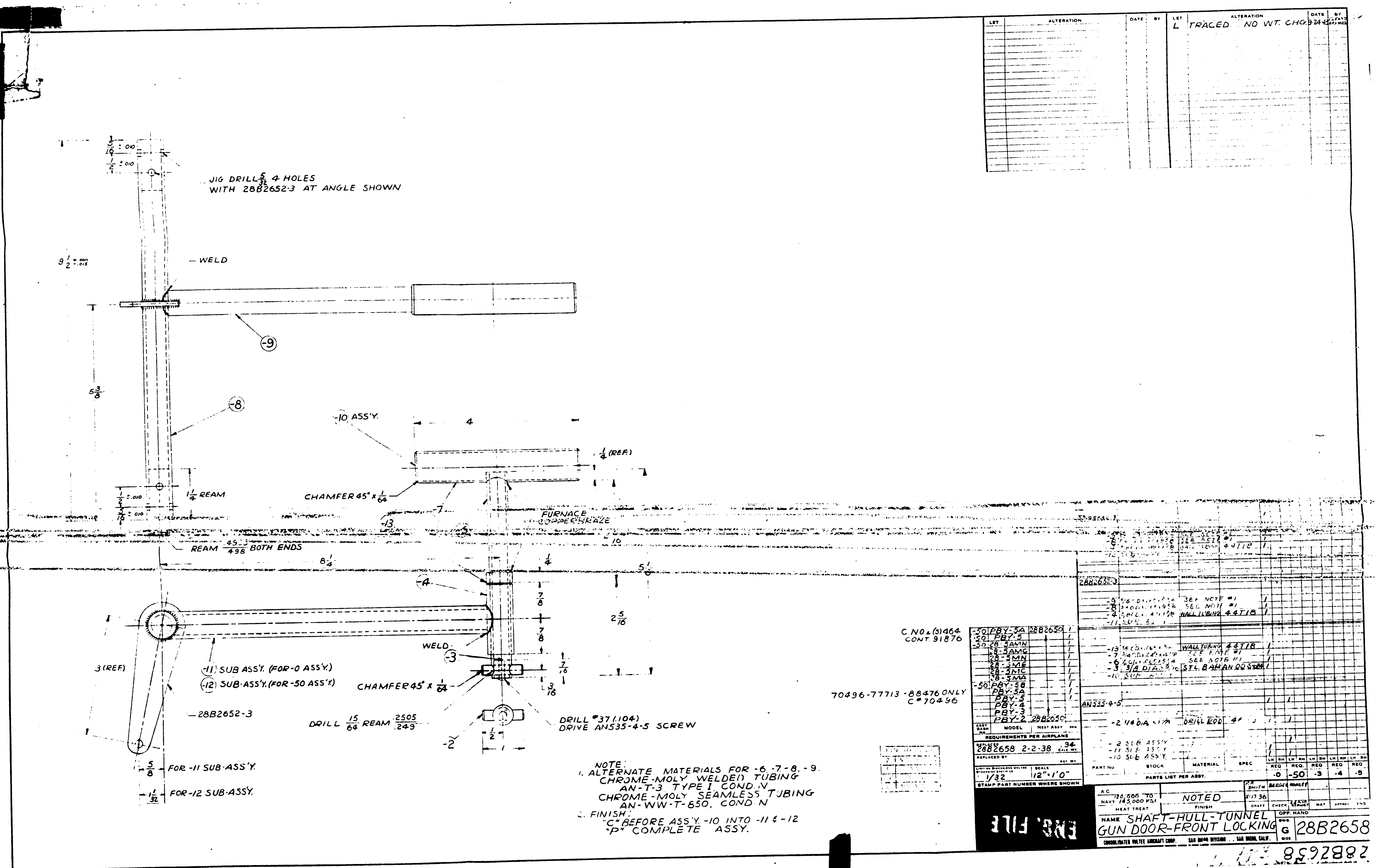
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF

SIZE G — DWG. 28B184

R 28B184

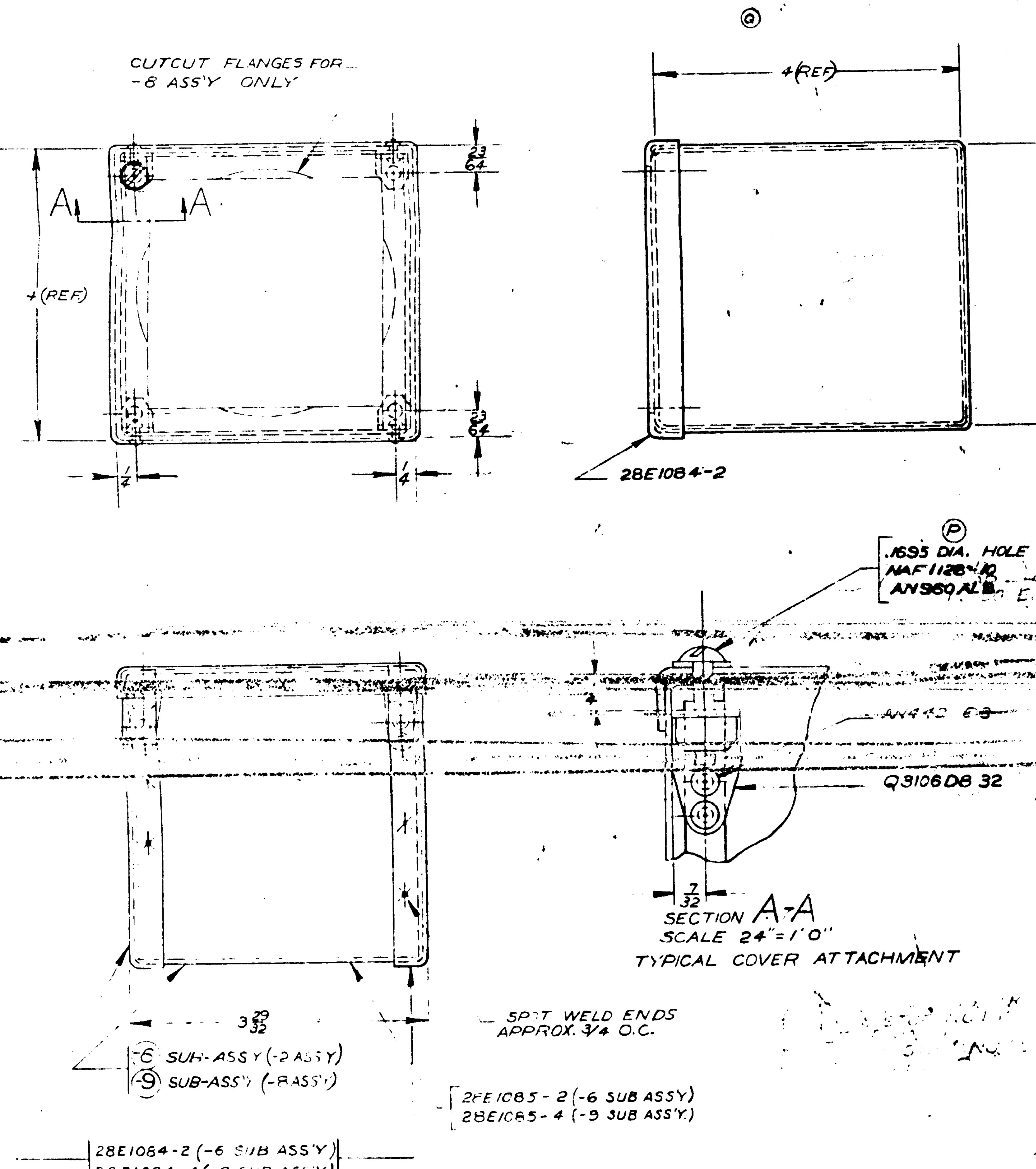


-4 (REF) ENDS HERE
28 1/4 APPROX. TAP DIM. ALONG DECK TO ℄ OF HULL
28B1270-7R
Q4305-D4
END OF -5
28B1274-6
28B1270-7L
Q4305-D4
28B1267
DRILL #37 (.0425) 4 HOLES
28B1265 (REF.)
28B1267 (REF.)
CEMENT TO 28B1267
AN515 D4-5
AN340 D4
AN960 D3
SECTION X-X
PAINT IN WHITE ENAMEL
OPEN
VIEW Y-Y
SHOWING LETTERING
AN315-3R (4)
AN935-10 (2)
-0 ASSY.
Q4305-D4 (4)
28B1265
INSTALL BETWEEN 28B1274 & HULL SKIN.
28B1266
28B1264 (-0 ASSY)
28B5149 (-55 ASSY)
AN23-15
AN320-3
AN380-2-2
AN23-11
AN320-3
AN380-2-2
(FOR-0 ASSY) 28B1262
(FOR-55 ASSY) 28B5146-6
STA. 133 (REF.)
FORWARD
WITH VENTILATOR IN CLOSED POSITION
SAFETY PUNCH FOUR PLACES.
28B1263 (-0 ASSY)
28B5148 (-55 ASSY)
SECTION AA
TRACED NO WT. CHG.
REQUIREMENTS PER AIRPLANE
28B1269-3-20-37
PARTS LIST PER ASSY
ENG. FILE
NAVY NONE
ZP-2GP-7
NAME VENTILATOR INSTALLATION HULL - PILOTS
G 28B1269
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION .. SAN DIEGO, CALIF.



L TRACED NO WT. CHG.
JIG DRILL 5/32 4 HOLES WITH 28B2652-3 AT ANGLE SHOWN
WELD
-9
-8
-10 ASS'Y.
4
1/4 (REF.)
1 1/4 REAM
CHAMFER 45° x 1/64
-7
-13
FURNACE COPPER BRAZE
REAM .4995/.498 BOTH ENDS
8 1/4
-4
WELD
-3
-11 SUB ASS'Y. (FOR -0 ASS'Y.)
-12 SUB-ASS'Y. (FOR -50 ASS'Y.)
3 (REF.)
CHAMFER 45° x 1/64
28B2652-3
DRILL 15/64 REAM .2505/.249
-2
DRILL #37 (.104) DRIVE AN535-4-5 SCREW
5/8 FOR -11 SUB-ASS'Y.
1/32 FOR -12 SUB-ASS'Y.
C.NO.& (S)464 CONT. 91876
70496-77713-88476 ONLY C#70496
NOTE:
1. ALTERNATE MATERIALS FOR -6, -7, -8, -9.
CHROME-MOLY WELDED TUBING AN-T-3 TYPE I COND. N
CHROME-MOLY SEAMLESS TUBING AN-WW-T-850, COND. N
2. FINISH:
"C" BEFORE ASS'Y. -10 INTO -11 & -12
"P" COMPLETE ASSY.
-50 PBY-5A 28B2650
PBY-5
28-5AMN
28-5AMC
28-5MN
28-5ME
28-5MC
28-5MA
PBY-5B
PBY-5A
PBY-5
PBY-4
PBY-3
PBY-2 28B2650
REQUIREMENTS PER AIRPLANE
REPLACES 28B2658 2-2-38
1/32
SCALE 12"=1'0"
STAMP PART NUMBER WHERE SHOWN
WALL TUBING 44T18
SEE NOTE #1
3/8 DIA. STL. BAR AN QQ-S-684
AN535-4-5
1/4 DIA. DRILL ROD
PARTS LIST PER ASSY.
NOTED
ENG. FILE
NAME SHAFT-HULL-TUNNEL GUN DOOR-FRONT LOCKING
G 28B2658
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

LET	ALTERATION	DATE	BY
N	TRACED NO WT. CHG.	8-24-43	GREGG
P	REMOVED NOTE "DRILL & TAP 4 HOLES FOR 8-32 IN COVER" & ADDED .1695 DIA. HOLE. NO WT. CHG.	8-24-43	GREGG
Q	REM. CALLOUT -4 SUB ASS'Y FROM FACE & B/M IN -2 & -8 ASS'YS. ADDED 28E1084-2 (1 EA) NAF 1128-10 (4 EA) & AN960 AL8 (4 EA) TO GENERAL B/M. NO WT. CHG.	8-24-43	GREGG



NOTES

1. FINISH BEFORE ADDING SCREWS & STOP NUTS -P27 PRIMER TOUCH UP STOP NUTS AFTER ASSEMBLY

PART No	STOCK	MATERIAL	SPEC.
-9	SUB-ASSY		
-6	SUB-ASSY		

REPLACES 28E1086 OF 3-28-37

SCALE 12" = 1'0"

HEAT TREAT: NONE

FINISH: NOTED

DRAFT: 3-25-36 CHECK: 3-23-36 STRUCT: MILLER APPROV: LCW 3-13-

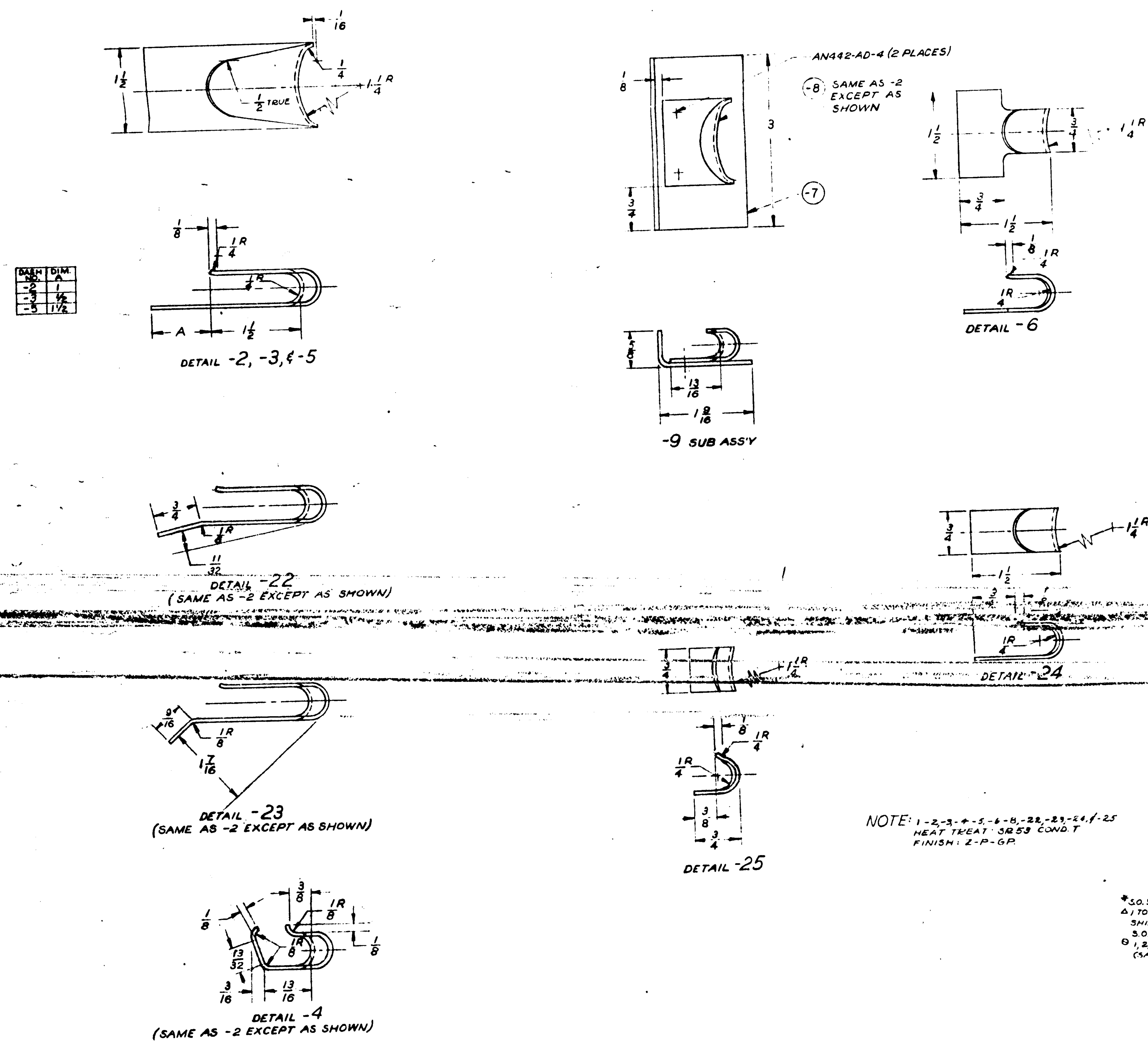
NAME: BOX ASS'Y - ELECT. JUNCTION

SIZE G DWG. 28E108[illegible]

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

R 98013

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				W	TRACED NO WT. CHG.	9-21-45	[illegible]



ASSY DASH NO.	MODEL	NEXT ASSY	REQ.	
-3	PBY-5A	28F1597	4	C. 70496, 77713, 88476 ONLY
-2	PBY-5A	28F1597	3	C. 70496, 77713, 88476 ONLY
-4	B24D	32F4860	1	*435 TO MCR 500(1)
-4	B24D	32F3064	1	*1 TO MCR 500(1)
-23	LB30	32F5366	1	
-23	LB30	32F5265	1	
-22	LB30	32F5367	1	
-[illegible]	LB30	32F5362	2	
-4	LB30	32F3064	1	
-4	LB30	32F5111	1	
-4	LB30	32F5110	1	
-4	B24C	32F3064	1	
-6	B24A	32F005	1	*1 TO 20
-9	B24 & B24A	32F1551	1 [illegible]	
-4	B24 & B24A	32F1614	4 [illegible]	
-4	B24 & B24A	32F005	2 [illegible]	
-2	B24 & B24A	32F005	2 [illegible]	
-9	XB24	32F1551	1	
-4	XB24	32F1614	4	
-4	XB24	32F005	2	
-2	XB24	32F005	2	
-25	PB2Y-3	29F3751	[illegible]	
-24	PB2Y-3	29F3824	4	⊖
[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	PB2Y-3	29F1412	[illegible]	
-6	[illegible]	[illegible]	[illegible]	
-6	PB2Y-3	29F6016	1	
-5	PB2Y-3	29F3298	6	
-4	PB2Y-3	29F4118	1	
-4	PB2Y-3	29F[illegible]	1	
-6	XPB2Y-3	29F3351	1	
-6	[illegible]	[illegible]	[illegible]	
-5	PB2Y-2	29F1406	6	
-4	PB2Y-2	29F1474	1	
-3	28-5AMC	28F5660	6	
-2	28-5AMC	28F5660	2	
-3	28-5MN & ANN	28F1597	4	
-2	28-5MN & ANN	28F1597	3	
-3	28-5MA & ME	28F5660	5	
-2	28-5MA & ME	28F5660	3	
-3	25-5MC	28F5660	5	
-2	25-5MC	28F5660	3	
-3	PBY-5B	28F5660	5	
-2	PBY-5B	28F5660	3	
-3	PBY-5A	28F1597	7	C.19595
-2	PBY-5A	28F1597	1	MCR #148.9
-3	PBY-5	28F1597	8	C.91876-#91 & ON
-3	PBY-5	28F1597	4	C 70496 & 91876-#1 TO 90
-2	PBY-5	28F1597	3	C 70496 & 91876-#1 TO 90
-3	XPBY-5	28F4157		
-2	XPBY-5	28F4157		
-3	PBY-1,2,3,4	28F1597		
-2	PBY-1,2,3,4	28F1597		

REQUIREMENTS PER AIRPLANE

*S.O. 946-55 & 954-17
△ 1 TO 59 (SERVICE ACTION REMOVAL) SHIPS 151 & ON & SHIP #3 EXC. S.O. 946-110-1A
⊖ 1, 2, 4, TO 150 EXC CARGOES (5A 1 TO 59)

REPLACES 28F1594 (5-18-37) -25-2.05 -24-3.06 CALC WT
REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 12" = 1' 0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.	
AN442-AD[illegible]				
-[illegible]	.064 X 1 1/8 X 2 1/4	ALC. SHT	QQ-A-362-A	1
-7	.040 X 2 1/2 X 3 1/8	ALC. SHT	QQ-A-362-T	1
-9	SUB ASSY			
-25	.064 X 7/8 X 1 3/4	ALC. SHT.	QQ-A-362-A	
-24	.064 X 7/8 X 3 1/2	ALC. SHT.	QQ-A-362-A	
-23	.064 X 1 1/2 X 5	ALC. SHT.	QQ-A-362-A	
-22	.064 X 1 1/2 X 5	ALC. SHT.	QQ-A-362-A	
-6	.064 X 1 1/2 X 3 1/8	ALC. SHT.	QQ-A-362-A	
-5	.064 X 1 1/2 X 5 1/2	ALC. SHT.	QQ-A-362-A	
-4	.064 X 1 1/2 X 3 1/4	ALC. SHT	QQ-A-362-A	
-3	.064 X 1 1/2 X 4 1/2	ALC. SHT.	QQ-A-362-A	
-2	.064 X 1 1/2 X 5	ALC. SHT	QQ-A-362-A	
-8	SUB ASSY			

PARTS LIST PER ASSY. — REQ. LH RH: -0, -2, -3, -4, -5

FINISH CODE

ENG. FILE

A C NOTED	C.V.A.C. ZF-32-001	LOCKHART	[illegible]	MILLER	DM	LCW	
NAVY NOTED	NOTED	10-1-36	[illegible]			6/10/37	
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT.	APPROV	ENG

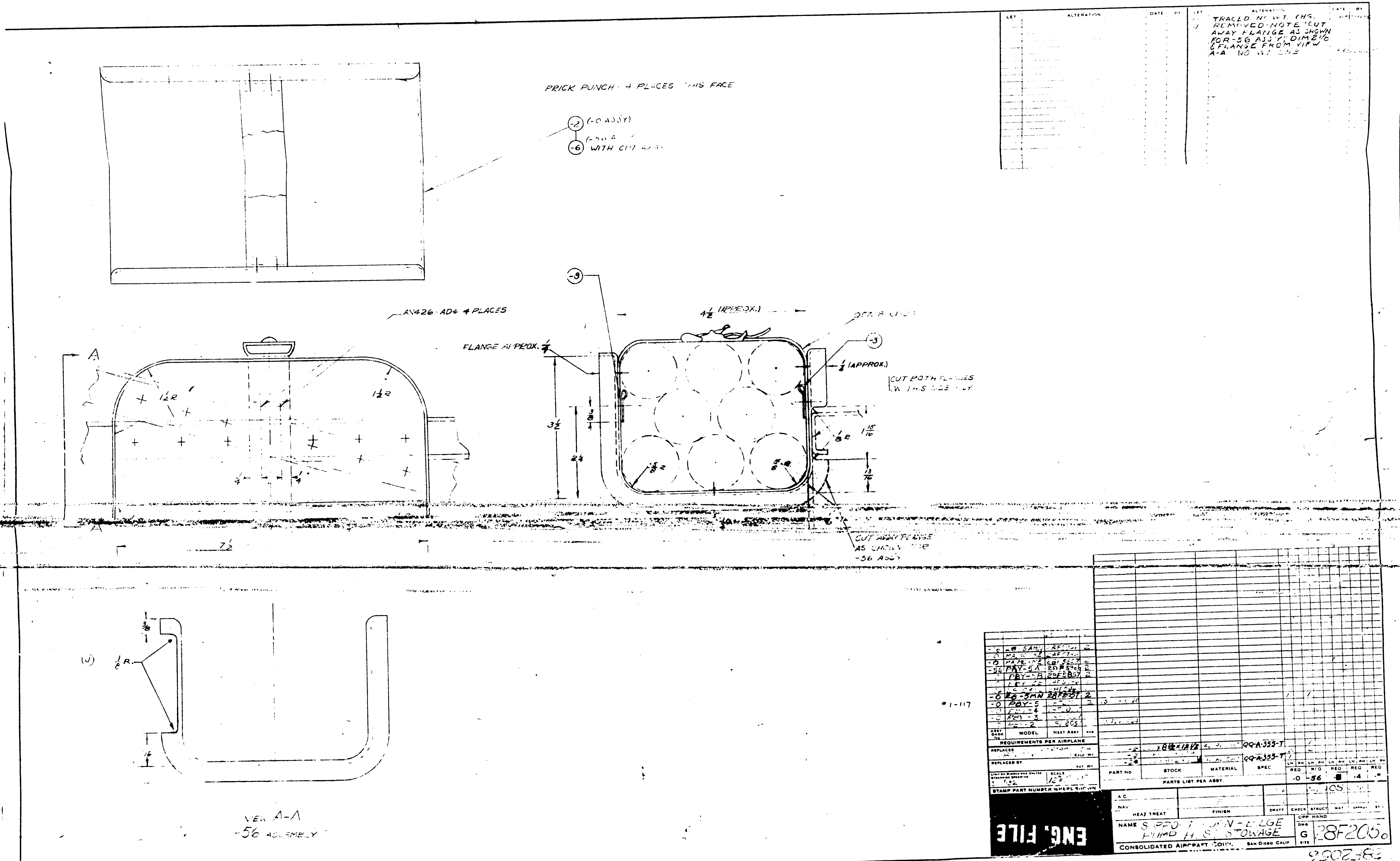
NAME BRACKET-FURNISHINGS PARACHUTE ATTACHING

OPP. HAND NONE

DWG. G 28F1594

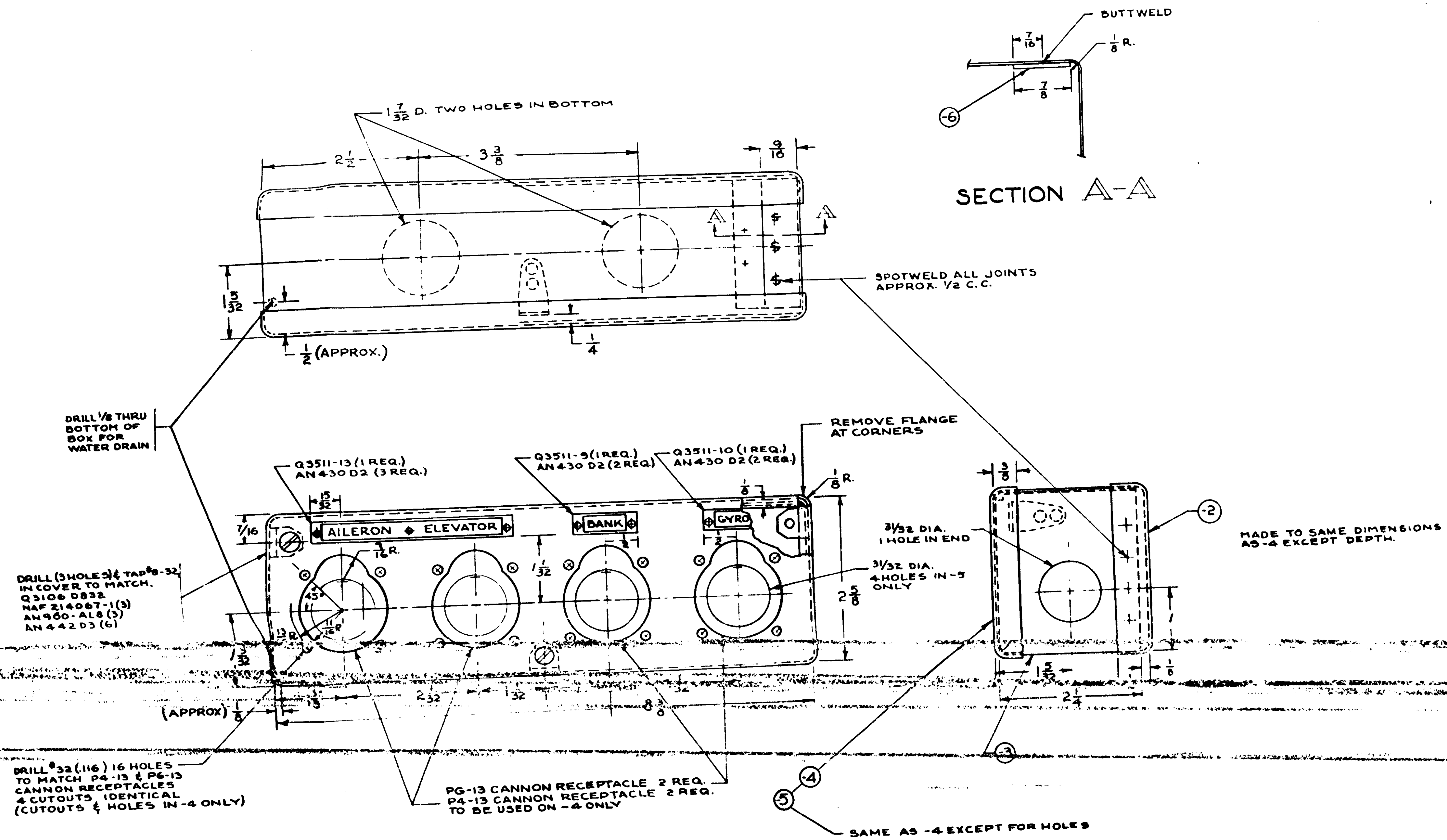
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . . SAN DIEGO, CALIF.

C.V.A.C. GOODYEAR R 28F1594



PRICK PUNCH 4 PLACES THIS FACE
WITH CUT
AN426 AD4 4 PLACES
FLANGE APPROX.
(APPROX.)
CUT BOTH FLANGES
CUT AWAY FLANGE
-56 ASSY
VIEW A-A
-56 ASSEMBLY
TRACED NO WT. CHG.
REMOVED NOTE "CUT AWAY FLANGE AS SHOWN FOR -56 ASSY" DIM
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY
STAMP PART NUMBER WHERE SHOWN
ENG. FILE
STOWAGE
CONSOLIDATED AIRCRAFT CORP.
SAN DIEGO CALIF
28F205

LET	ALTERATION	DATE	BY
N	TRACED	10-8-43	



1. FOR -2 & -4 USE:
   A. .051 AL 35 1/2 H, SPEC. 47AL CL 1/2 H
      H.T. NONE OR
   B. .051 AL. AL. 52 S O, SPEC. 47A11
      TEMP. A. H.T. NONE.

USED ON SHIPS #0454-#0465 INCL., #0497, #0498
USED ON SHIPS #0490-#0496 INCL.
USED ON SHIPS #0466-#0489, #0499-#0504 INCL.

FINISH: INSIDE & OUTSIDE P-2 GP
LEAVES OUTSIDE UNFINISHED
WITHIN 3/32 OF CONDUIT HOLES.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE
GP	GREEN PRIME

ASS'Y DASH NO.	MODEL	NEXT ASS'Y
-550	PBY-5A	28E1011-550
-550	PBY-5	28E1011-550
	PBY-4	28E1011-202
	PBY-3	28E1011-202
	PBY-2	28E1011-200
	PBY-2	28E1011-201
	PBY-2	28E1011-60

REQUIREMENTS PER AIRPLANE

PART NO.	STOCK	MATERIAL	SPEC.	-0	-550	-3	-4	-5
AN960-AL8				3	3			
AN430 D2				7	7			
NAF214067-1				3	3			
AN442 D3				6	6			
CANNON P6-13				2				
CANNON P4-13				2				
Q3106 D832				3	3			
Q3511-13				1	1			
-10				1	1			
Q3511-9				1	1			
-6	.040 X 1 X 2 1/4	ALC. 24 ST	47A8 COND. T	1	1			
-5	NOTED				1			
-4	NOTED			1	1			
-3	.032 X 2 3/8 X 22 1/4	ALC. 24 S	47A8 COND. T	1	1			
-2	NOTED			1	1			

PARTS LIST PER ASS'Y

REPLACES 28E2094 10-8-43 — CALC. WT. .78
REPLACED BY — ACT. WT.
LIMIT ON DIMENSION UNLESS OTHERWISE SPECIFIED ± 1/3
SCALE 2" = 1'-0"

NAVY NOTED — MATERIAL: NOTED — SPEC.: NOTED — HEAT TREAT: NOTED — FINISH

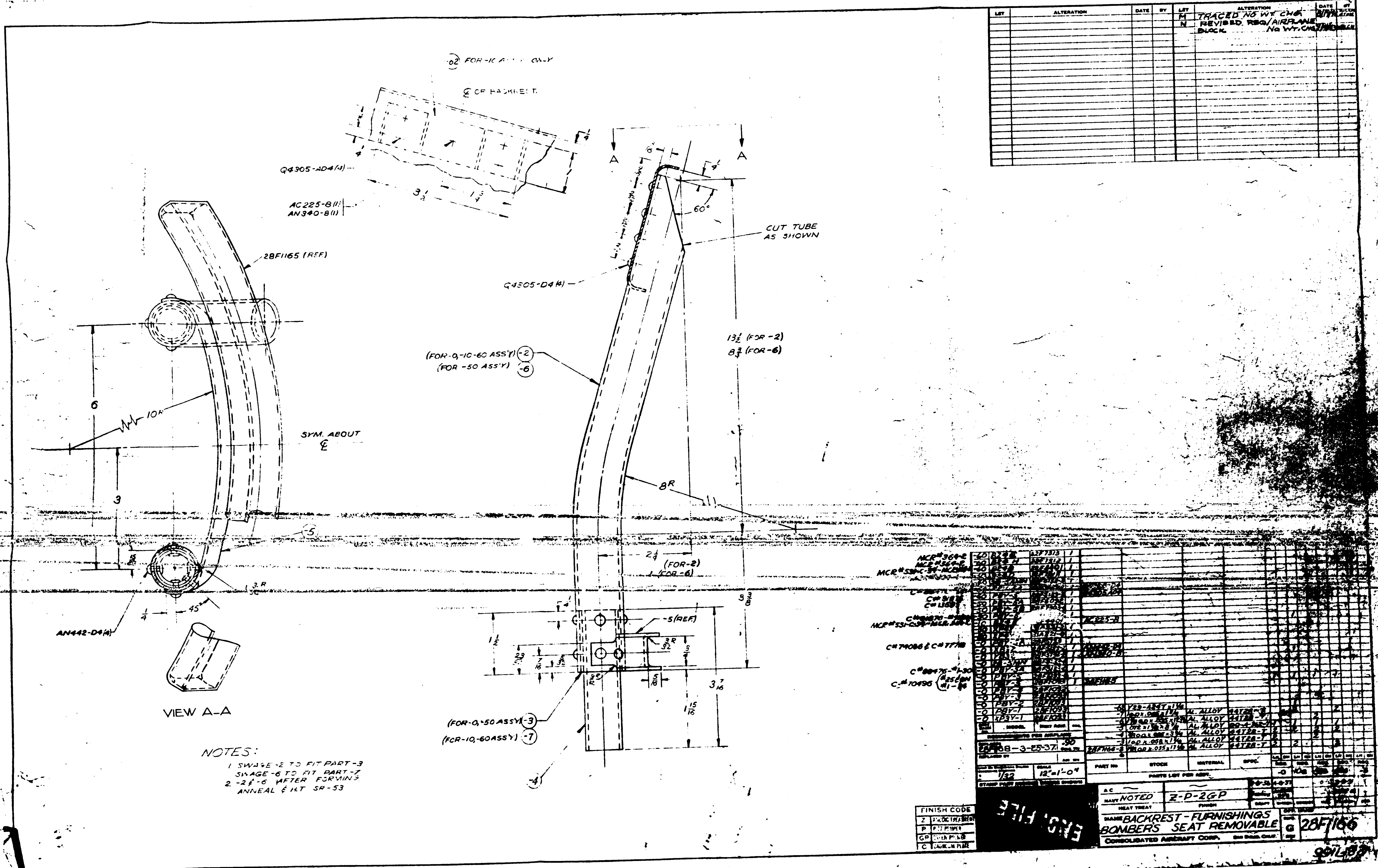
DRAFT | CHECK | ENGR | ENG.

OPP HAND NONE

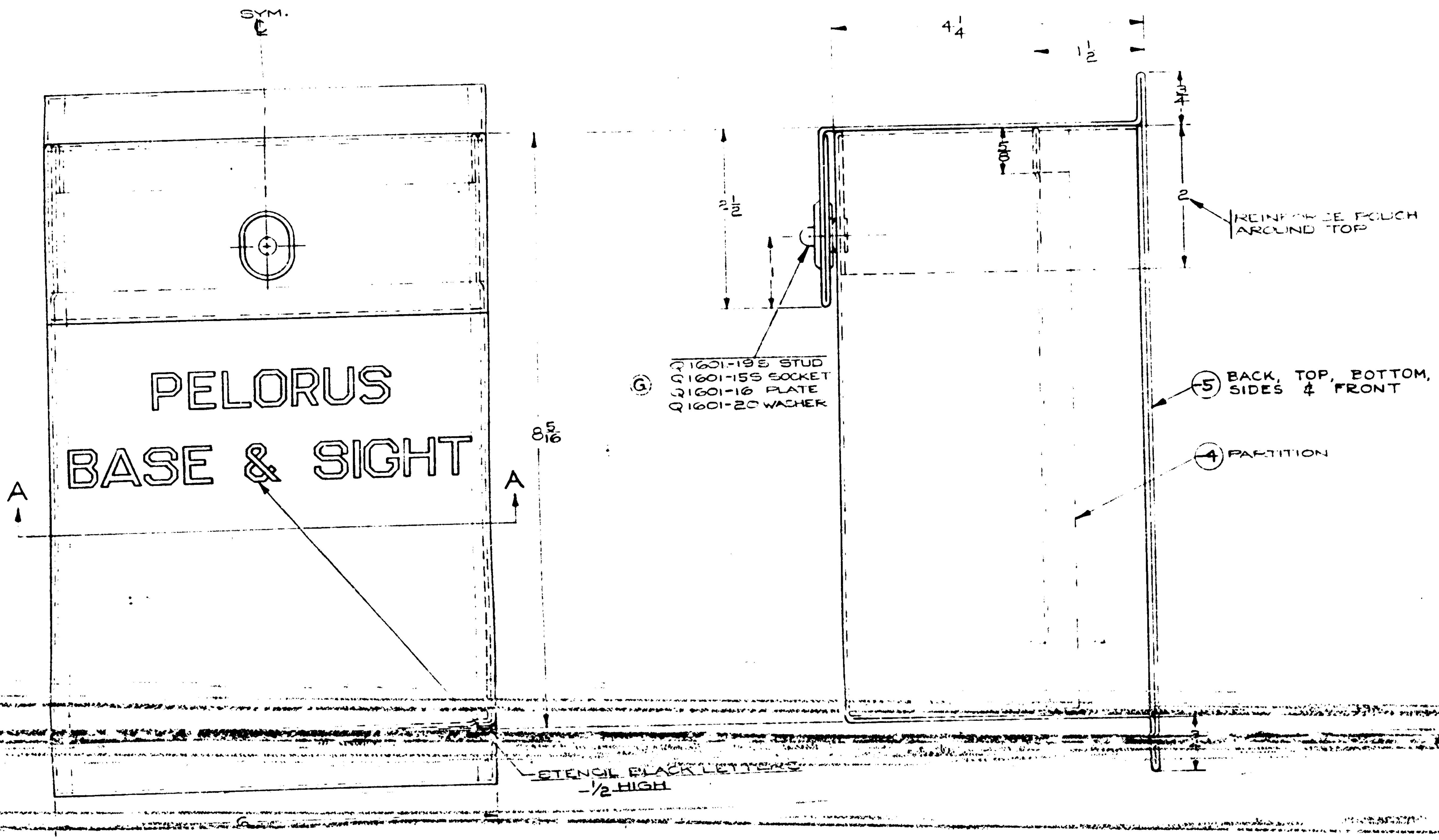
CONSOLIDATED AIRCRAFT CO.

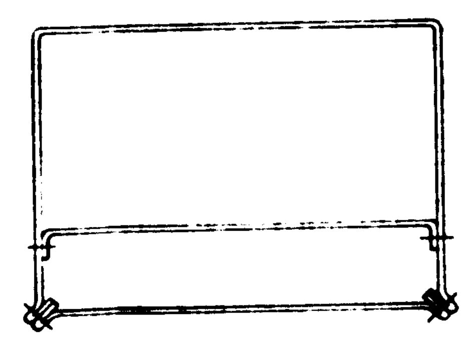
NAME: BOX ASSEMBLY ELEC. RECEPTACLE

SIZE G — 28E2094


TRACED NO WT CHG.
REVISED REQ/AIRPLANE BLOCK No WT. CHG.
Q4305-AD4(4)
AC225-8(1)
AN340-8(1)
28F1165 (REF)
SYM. ABOUT ℄
CUT TUBE AS SHOWN
Q4305-D4(4)
60°
13½ (FOR -2)
8¾ (FOR -6)
(FOR-0,-10-60 ASS'Y) -2
(FOR -50 ASS'Y) -6
8R
(FOR-2)
(FOR-6)
-5(REF)
(FOR-0,-50 ASS'Y) -3
(FOR-10,-60 ASS'Y) -7
-4
AN442-D4(4)
45°
VIEW A-A
NOTES:
1 SWAGE -2 TO FIT PART -3
SWAGE -6 TO FIT PART -7
2. -2 & -6 AFTER FORMING ANNEAL & H.T SR-53
FINISH CODE
Z ANODIC TREATMENT
P PRIMER
GP GREEN PRIMER
C CADMIUM PLATE
28F108-3-25-37
1/32
12"=1'-0"
NOTED
Z-P-2GP
BACKREST - FURNISHINGS
BOMBER'S SEAT REMOVABLE
CONSOLIDATED AIRCRAFT CORP.
G
28F166
PBY-2
PBY-1
XP3Y-1
AL. ALLOY
ENG. FILE

LET	ALTERATION	DATE	BY
F	TRACED. NO WT. CHG.	10-2-43	MILLER
G	-5 16X37 CVAC #FAB-6-50 8 OZ. DUCK REPLACES -2 & -3 CVAC #FAB-6-50 8 OZ. DUCK. ADDED NOTE 5 #4 & #5. ADDED STOCK SIZE 7X10 FOR -4 IN B/M. Q1601-19S, Q1601-15S, Q1601-16 & Q1601-20 REPLACE AC2... -5 & AC P...5-1. WT. CHG. NEG.	10-2-43	MILLER





SECTION A-A
6" = 1'-0"

G

NOTES.

1. TO BE MADE FROM C.V.A.C. #FAB. 6-50 8 OZ. DUCK TREATED IN ACCORDANCE WITH NAVY SPEC. 24D4.
2. STITCH WITH COTTON TH'D. SPEC. V7 276.
3. ALL DIMS. ARE APPROX. STITCHING MAY VARY TO FACILITATE MFG.
4. THIS IS NOT A WORKING DRWG. & IS ISSUED ONLY FOR IDENTIFICATION OF TEMPLATES & TO PROVIDE A B/M. DETAIL PARTS ARE TO BE MFG. FROM PRODUCTION TEMPLATE & INSPECTED TO A PRODUCTION SAMPLE.
5. HEMS, SEAMS, & STITCHING TO BE IN ACCORDANCE WITH FED. SPEC. DD-S-751.

Q1601-19S	STUD				1
Q1601-15S	SOCKET				1
Q1601-16	PLATE				1
Q1601-20	WASHER				1
-5	16X37	SEE NOTE #1	24-D4		1
-4	7X10	SEE NOTE #1	24-D4		1
PART No	STOCK	MATERIAL	SPEC.		REQ. -0 / -2 / -3 / -4 / -5

PARTS LIST PER ASSY.

ASSY DASH No	MODEL	NEXT ASSY.	REQ.
	PBY-5B	28F3092	2
	PBY-5A	28F3092	2
	PBY-5	28F3092	2

REQUIREMENTS PER AIRPLANE

REPLACES 28F3091 of 2-17-39 — 41 LBS CALC WT

REPLACED BY — ACT WT

SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

A C		BOULEY 11-2-37				L.C.W. 2-17-39	G R
NAVY NOTE L	NONE						
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	

NAME POUCH - PILOT'S PELORUS BASE & SIGHT

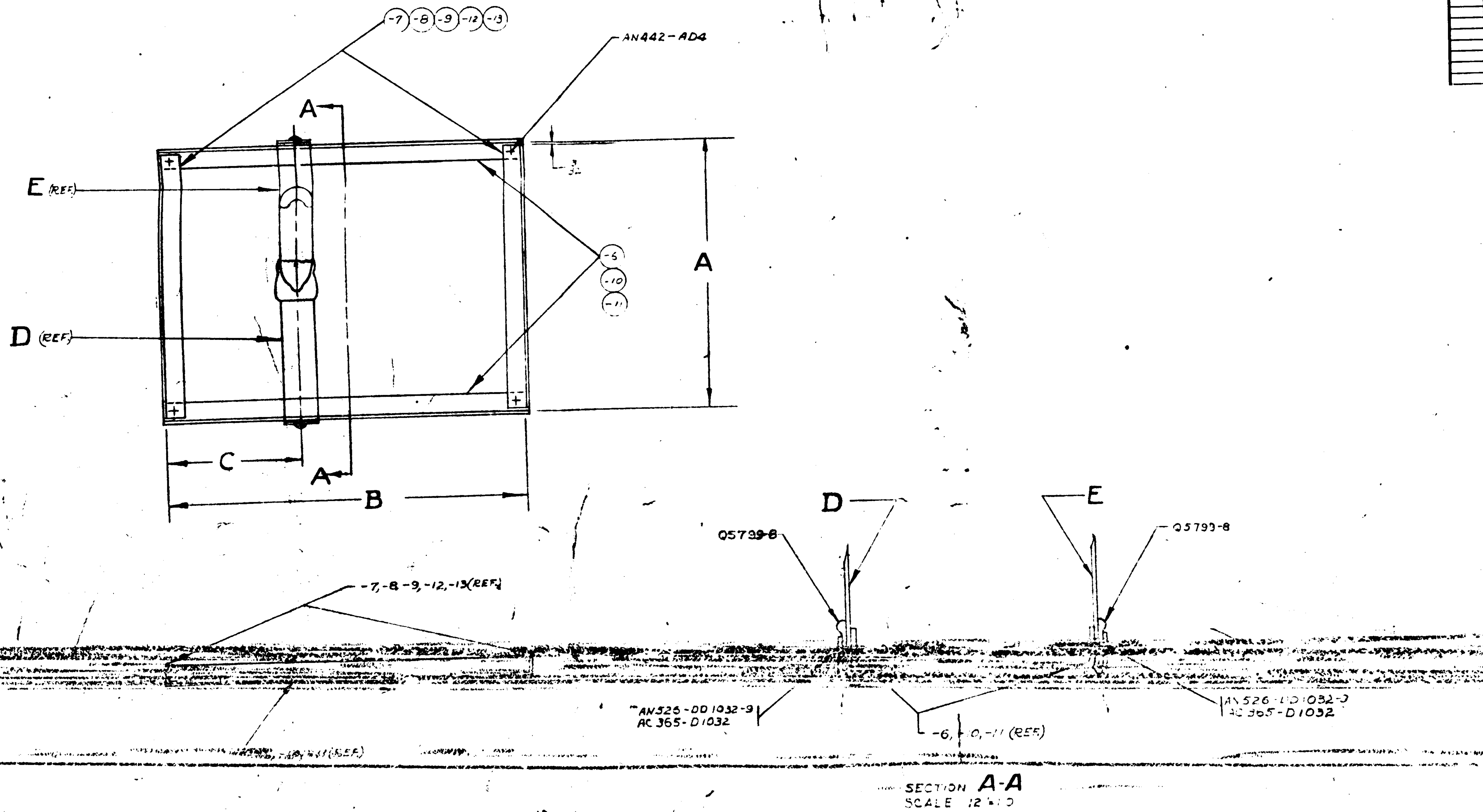
OPP. HAND NONE

DWG. SIZE G 28F3091

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

28F3091

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				E	TRACED. NOWT. CHG.	[illegible]	[illegible]



SECTION A-A
SCALE 12 x 10

ASS'Y DASH No	A	B	C	D	E	CALC. WT.
-0	8 1/4	10 3/4	4	Q5748-K1-12	Q5708-K1-8	.35
-2	9 7/8	10 3/4	4	Q5748-K1-12	Q5708-K1-8	.37
-3	10 1/2	10 3/4	4	Q5748-K1-12	Q5708-K1-8	.39
-4	11 3/4	18 5/8	9 3/16	Q5748-K1-13	Q5708-K1-10	.57
-5	8 5/8	16 1/4	8 7/8	Q5748-K1-20	Q5708-K1-18	.51

MATERIAL NOTE:-
(1) -6 MAY BE MADE FROM Y-2-A20T X [illegible] OR K15624 X [illegible] AL AL. 46A9T.
(2) -7 MAY BE MADE FROM Y-2-A20T X [illegible] OR K15624 X [illegible] 46A9T.
(3) -8 MAY BE MADE FROM Y-2-A20T X 10 [illegible] OR K15624 X [illegible] AL AL. 46A9T.
(4) -9 MAY BE MADE FROM Y-2-A20T X 10 7/8 OR K15624 X [illegible] AL AL. 46A9T.
(5) -10 MAY BE MADE FROM Y-2-A20T X 18 [illegible] OR K15624 X [illegible] 46A9T.
(6) -11 MAY BE MADE FROM Y-2-A20T X 16 1/2 OR K15624 X [illegible] 46A9T.
(7) -12 MAY BE MADE FROM Y-2-A20T X 12 OR K15624 X [illegible] AL AL. 46A9T.
(8) -13 MAY BE MADE FROM Y-2-A20T X 8 7/8 OR K15624 X [illegible] 46A9T.

	ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.
C# 88476	-5	PBY-5A	28F5408	1
C# 91876	-5	PBY-5	28F5408	1
C# 88476	-4	PBY-5A	28F5408	1
C# 91876	-4	PBY-5	28F5408	1
C# 88476	-3	PBY-5A	28F5380-0	1
C# 91876	-2	PBY-5	28F5380-0	1
	-0	28-5AMN	28F5962	1
	-0	28-5AME	28F5962	1
	-0	28-5MN	28F5962	1
	-0	PBY-5A	28F5786	1
	-0	28-5MA	28F5786	1
	-0	28-5MC	28F5786	1
	-0	28-5ME	28F5786	1

REQUIREMENTS PER AIRPLANE

REPLACES 28F5195 OF 8-6-40 — CALC. WT. NOTED

REPLACED BY — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32 — SCALE 6"-1'0 & NOTED

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.	-0 REQ.	-2 REQ.	-3 REQ.	-4 REQ.	-5 REQ.
AN442-AD4								
Q5793-8				2	2	2	2	2
Q5748-K1-20								1
Q5748-K1-13							1	
Q5748-K1-12				1	1	1		
Q5708-K1-18								1
Q5708-K1-10							1	
Q5708-K1-8				1	1	1		
AC365-D1032				2	2	2	2	2
AN526-DD1032-9				2	2	2	2	2
-13	NOTED	NOTED	NOTED					2
-12	NOTED	NOTED	NOTED				2	
-11	NOTED	NOTED	NOTED					2
-10	NOTED	NOTED	NOTED				2	
-9	NOTED	NOTED	NOTED			2		
-6	NOTED	NOTED	NOTED		2			
-7	NOTED	NOTED	NOTED	2				
-8	NOTED	NOTED	NOTED	2	2	2		

PARTS LIST PER ASSY.

ENG. FILE

A.C. [illegible] — NAVY NONE — HEAT TREAT — Z-P FINISH

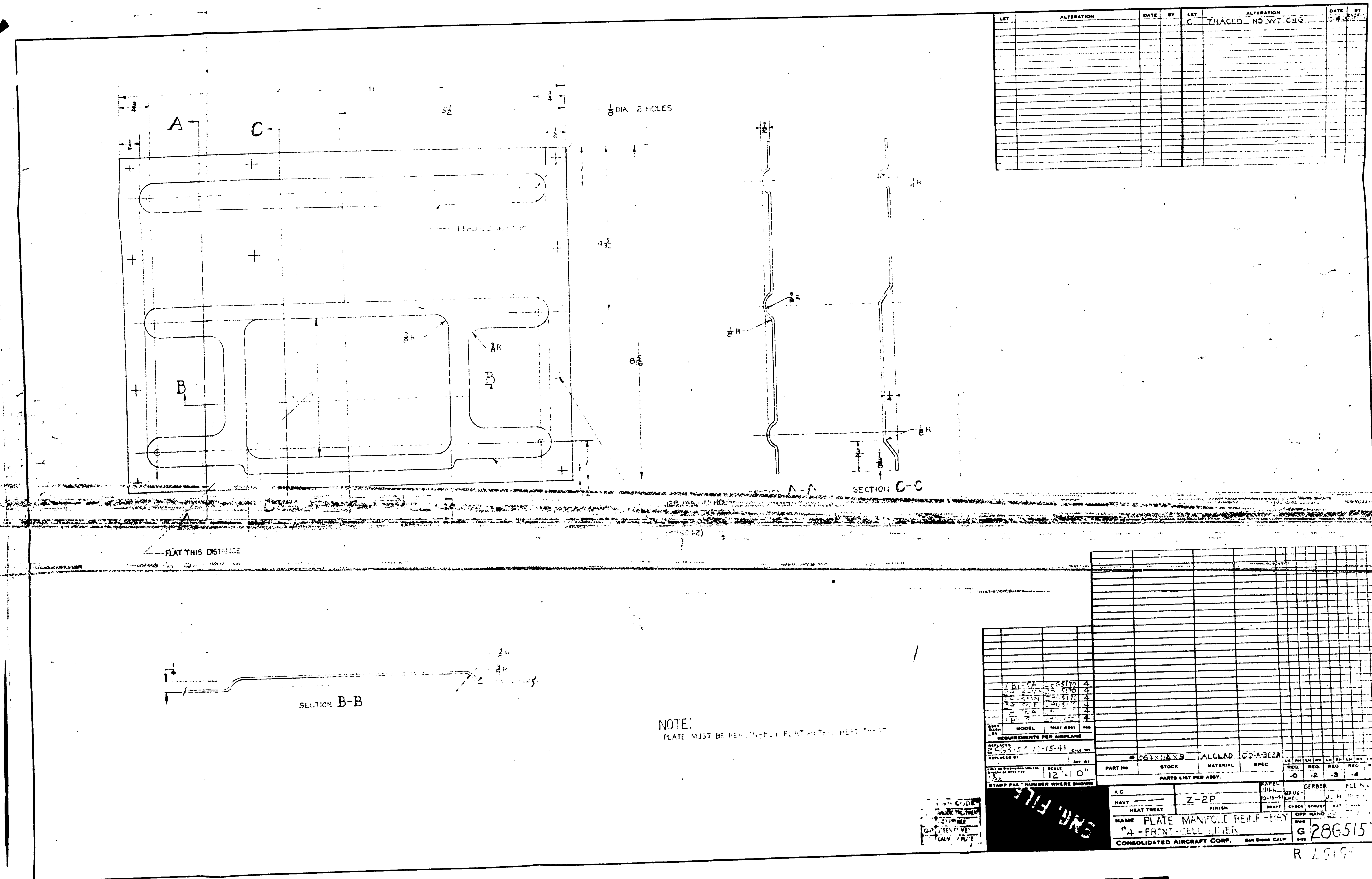
DRAFT: PARKER C.N. 8-6-40 — CHECK: [illegible] — STRUCT: SC. 8-15-40 — MAT. — APPROV.

NAME: SUPPORT-FURN'S REFUELING UNIT

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SIZE G — DWG. 28F578[illegible]

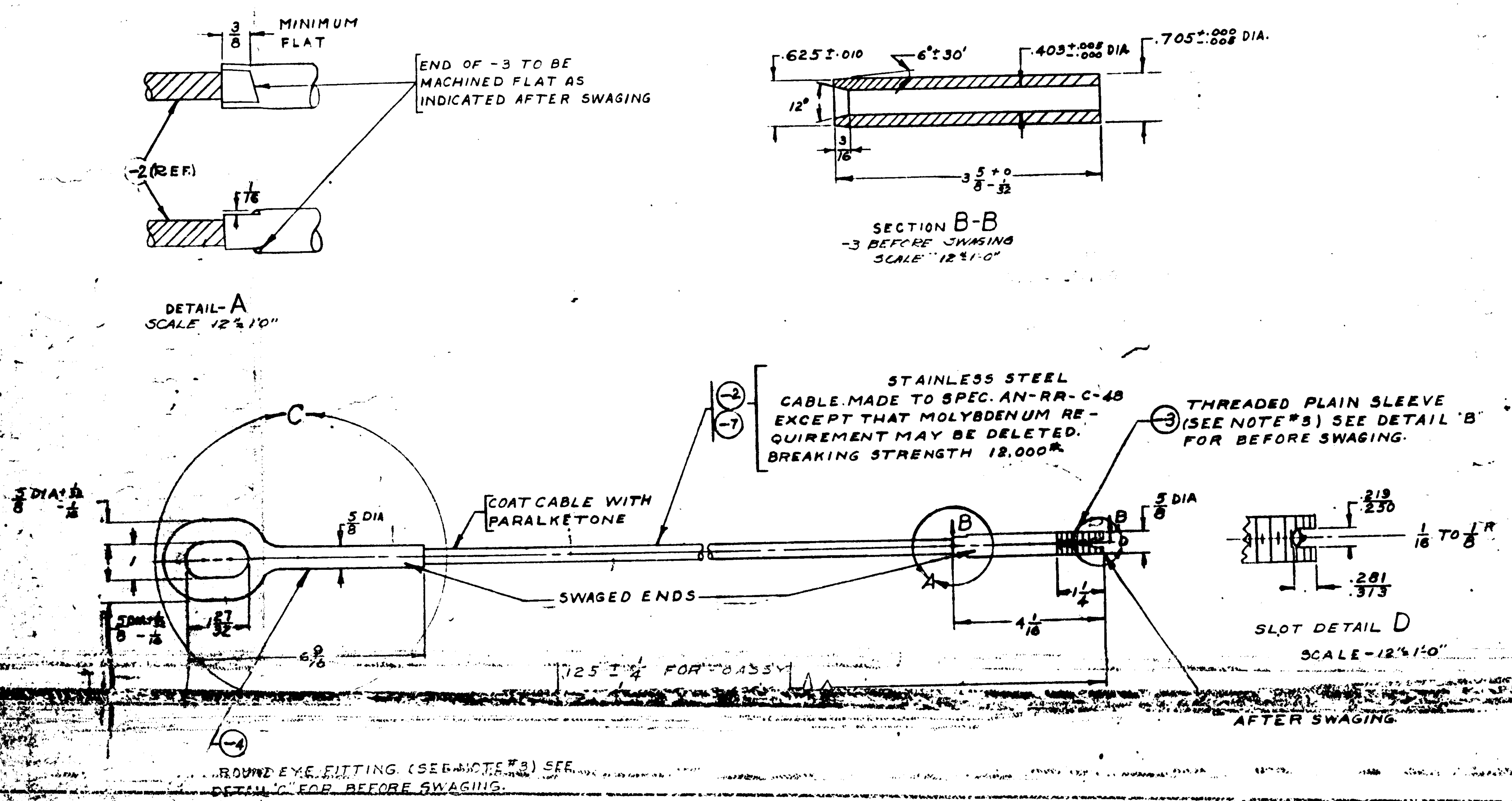
R 28F5785

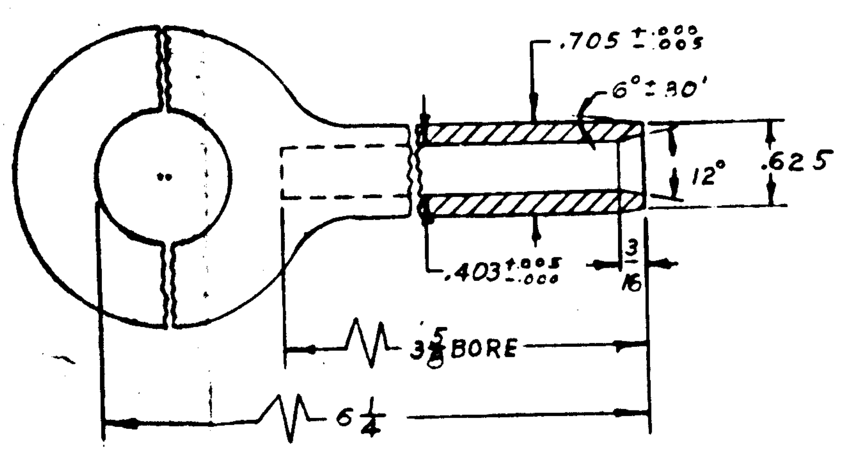


TRACED NO WT. CHG.
1/8 DIA 2 HOLES
A
C
B
SECTION A-A
SECTION C-C
SECTION B-B
FLAT THIS DISTANCE
NOTE:
PLATE MUST BE FLAT AFTER HEAT TREAT
REQUIREMENTS PER AIRPLANE
REPLACES 28G5157 10-15-41
SCALE 12"=1 0"
STAMP PART NUMBER WHERE SHOWN
ALCLAD
QQ-A-362A
PARTS LIST PER ASSY.
Z-2P
FINISH
HEAT TREAT
NAME PLATE MANIFOLD REINF - BAY #4 - FRONT - CELL LINER
CONSOLIDATED AIRCRAFT CORP. San Diego Calif
G 28G515
ENG. FILE

K 177

LET	ALTERATION	DATE	BY
A-A	TRACED NO WT. CHG.	9-21-43	MORRIS
A-B	SECTION B-B WAS DETAIL B NO WT. CHG.	9-21-43	MORRIS





DETAIL C
-4 BEFORE SWAGING
SCALE - 12" = 1'-0"

NOTES:
1. END TERMINALS TO DEVELOP FULL STRENGTH OF CABLE PROOF TEST TO 7200 POUNDS.
2. FINISH END TERMINALS TO A HIGH POLISH.
3. WHEN C.V.A.C. MAKES THIS PART IT SHOULD BE GRADE 1C SWAGED TYPE.
4. TERMINALS -3 & -4 MUST BE OF CORROSION RESISTANT STEEL.

ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ.
-0	PBY-5	28H1012	1
-6	28-5AMC	28H1012	1
-6	PBY-5A	28H1012	1
-6	28-5AMN	28H1012	1
-0	28-5ME&MN	28H1012	1EA
-0	28-5MA&MC	28H1012	1EA
-0	PBY-5B	28H1012	1
-0	PBY-1,2,3,4	28H1012	1EA

REQUIREMENTS PER AIRPLANE

REPLACES 28H073 OF 7-21-37 — CALC. WT. 4.54 ACT. WT.
REPLACED BY

± .015 — SCALE: NOTED 6" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.	REQ. -0	REQ. -6
-7	3/8 DIA. (7X19)	ST. STL CABLE	AN-RR-C-48	-	1
-4	FORGING	ST. STL FORGING	AN-QQ-S-771	1	1
-3	3/4 DIA. X 3 3/4	ST. STL ROD	AN-QQ-S-771	1	1
28H073-2	3/8 DIA. X 7 X 19	ST. STL CABLE	AN-RR-C-48	1	-

PARTS LIST PER ASSY.

ENG. FILE

A C		DRAFT	CHECK	STRUCT	MAT.	APPROV.	ENG.
NAVY NONE	NOTED	FAMME	[illegible]	GREEN		LCW	
HEAT TREAT	FINISH	4-23-36	7-22-37	4-23-36		7-21-37	

NAME: CABLE-ASSY-MOORING PENDANT — OPP. HAND — DWG. SIZE G — 28H073

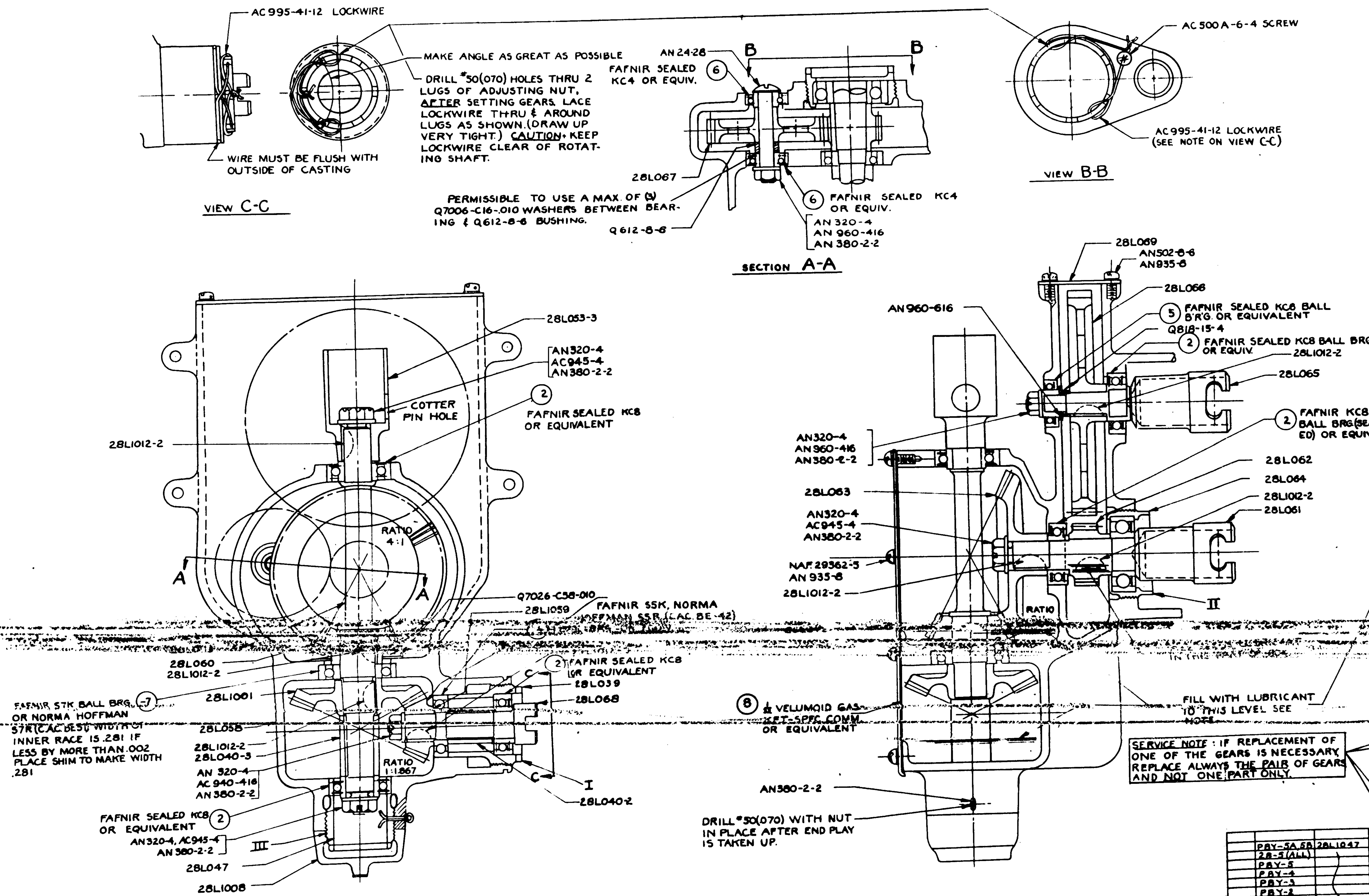
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . . SAN DIEGO, CAL.

R 28H073

K 178

LET	ALTERATION	DATE	BY
X	TRACED — NO WT. CHG.	10-12-37	

SUPPLIES & EQUIPMENT CLASSIFICATION



NOTES FOR ADJUSTMENT OF GEARS:-

AFTER ASSEMBLING, AS SHOWN, ALLOWING SLIGHTLY MORE PITCH CLEARANCE THAN NECESSARY, TIGHTEN THE 1/4 IN END NUTS ON ALL SHAFTS, THUS SECURING CORRECT RELATIVE POSITION ON EACH SHAFT. THE GEARS ON THE VERTICAL SHAFT, PERMIT NO ADJUSTMENT - NUT III SHOULD BE TIGHTENED FIRST TO REMOVE END PLAY IN BEARING. (SEE NOTE ABOUT SHIM AT BALL BRG.-7) NUT I & II ARE THEN TURNED IN, UNTIL CORRECT MESH WITH BACKLASH OF .004 MAX. AT PITCH DIA. IS OBTAINED. DRILL AND LOCK ALL NUTS AS SPECIFIED. USE ANTI-SEIZE COMPOUND ON ALL DURAL ADJUST. NUTS & COVER SCREWS.

LUBRICATION

FILL ONLY, TO HEIGHT SHOWN, WITH MOBILGREASE #2 OR KALREX #1 (OR EQUIVALENT-COLD TEST LUBRICANT.)

GP.-GREEN PRIME

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

ON XP3Y-1 GEAR RATIO = 1:2.3 WITH GEARS #28L137 & 28L138

PART NO.	STOCK	MATERIAL	SPEC.	REQ
Q7026-C58-010				1
AC 995-41-12				2
AC 500A-6-4				1
LUBRICANT				
ANTI-SEIZE	COMPOUND FOR DURAL THREADS			
AN 960-616				1
NAF 29362-5				7
AN 960-416				2
[illegible]				3
[illegible]				
AN 502-6-6				4
[illegible]				7
[illegible]				
AN 24-28				1
Q818-15-4				1
Q612-8-6				
28L1059				1
28L1012-2				1
[illegible]				
28L1008				1
28L1001				1
28L1000				1
28L070				1
28L069				1
28L068				1
28L067				1
28L066				1
28L065				1
28L064				1
28L063				1
28L062				1
28L061				1
28L060				1
28L059				1
28L058				1
-8				1
-7				1
-6				2
-5				1
28L057-4				1
28L057-2				[illegible]
28L053-3				1
28L047				1
28L040-3				1
28L040-2				1
28L039				1

PARTS LIST PER ASSY.

ASSY DASH NO.	MODEL	NEXT ASSY	REQ
	PBY-5A.5B	28L1047	1 EA.
	28-5(ALL)		1
	PBY-5		1
	PBY-4		
	PBY-3		
	PBY-2		
	PBY-1	28L1047	
	XP3Y-1	28L007	

REQUIREMENTS PER AIRPLANE

4-24-37 REPLACES 28L057 — REPLACED BY

L.C.W. APPROVED 4-24-37 DATE

6.12 CALC. WT. — 6.4 ACT. WT.

SCALE 12" = 1'-0"

A.C. — NAVY

HEAT TREAT: NONE — FINISH: TOUCH UP G.P.

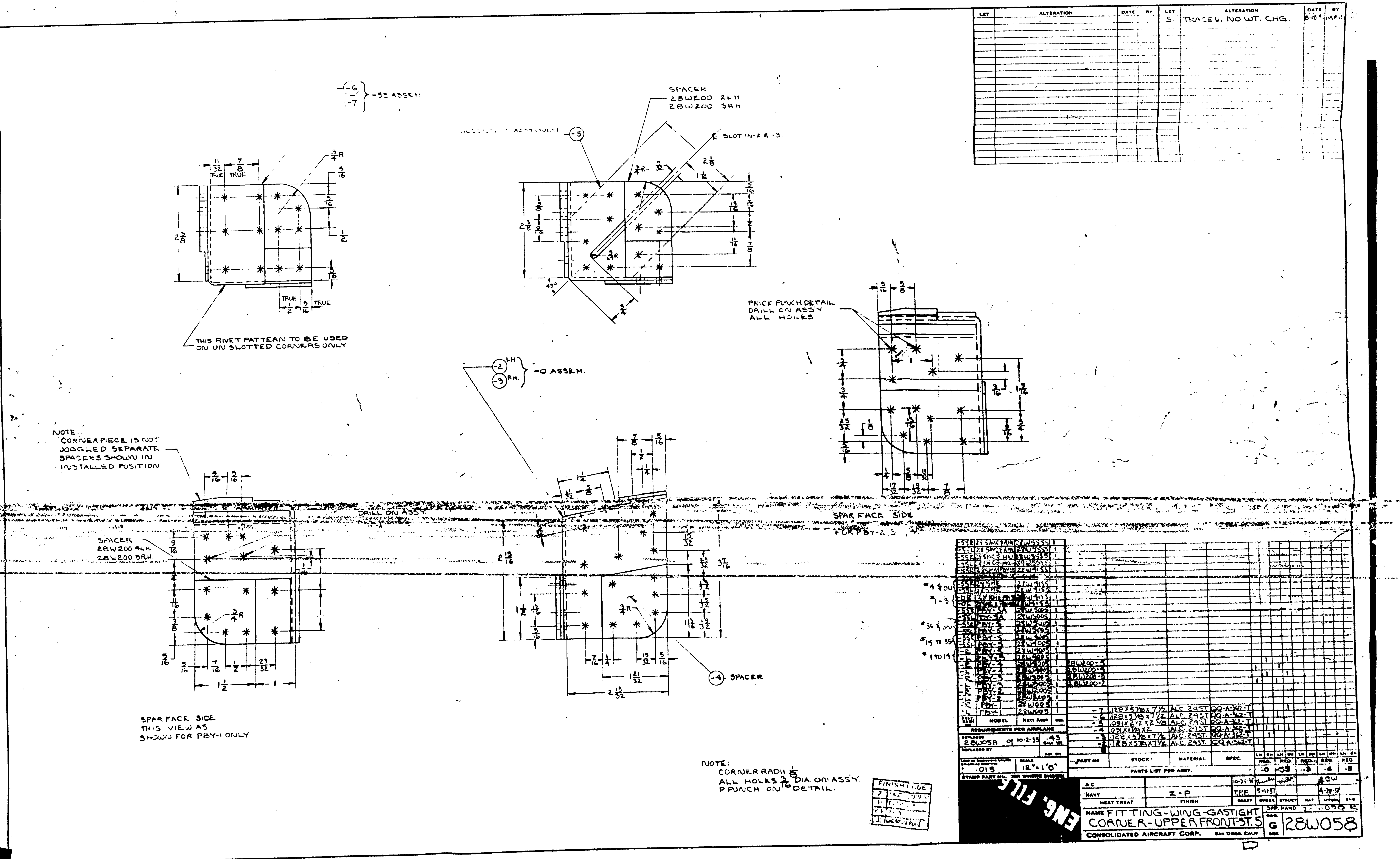
DRAFT	CHECK	STRUCT	MAT	APPROV.
4-12-34				HMP
W.M.	6-16-37			

CONSOLIDATED AIRCRAFT CORP SAN DIEGO, CALIF.

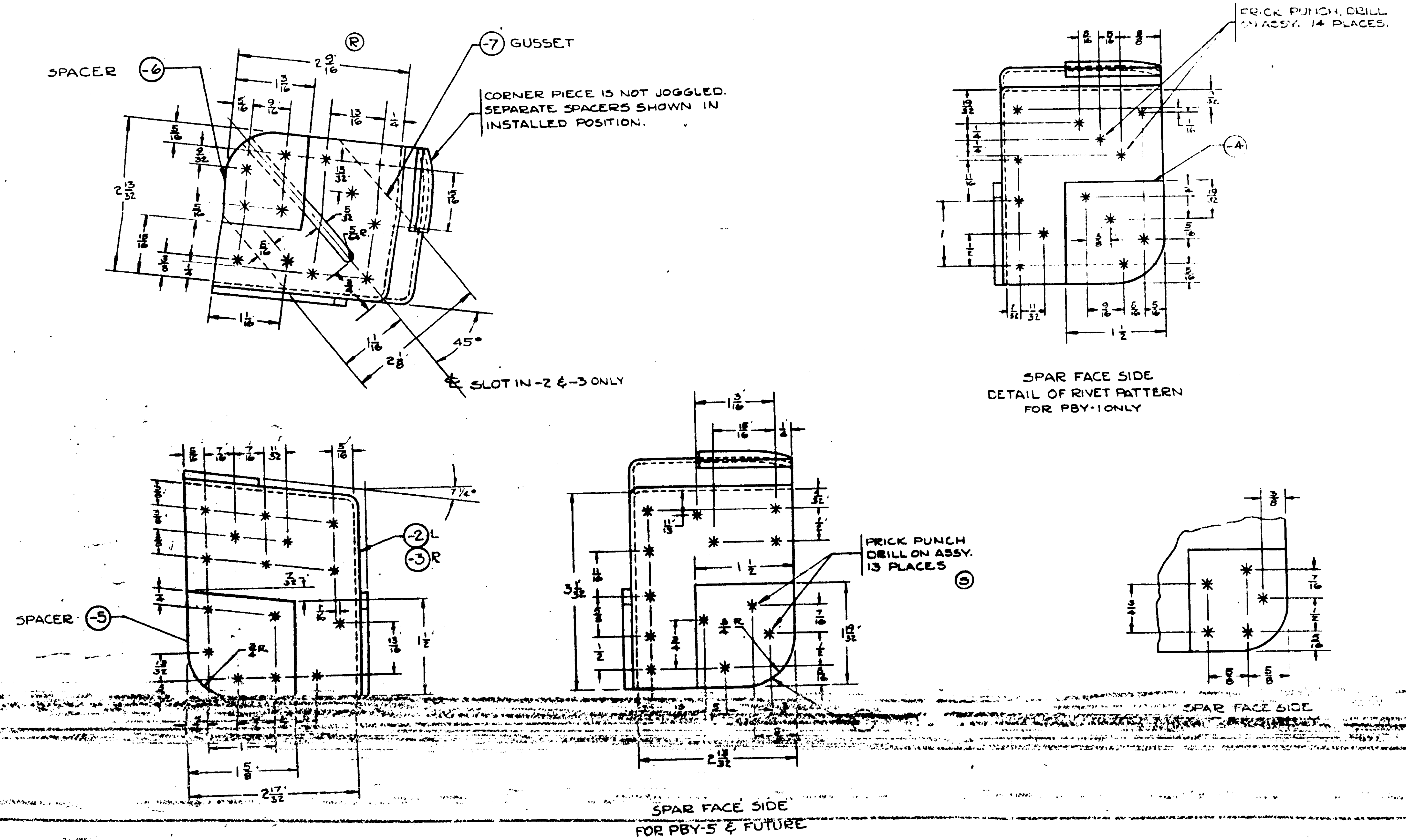
NAME GEAR BOX ASSEM - FLOAT CONTROL-LOWER CENT.

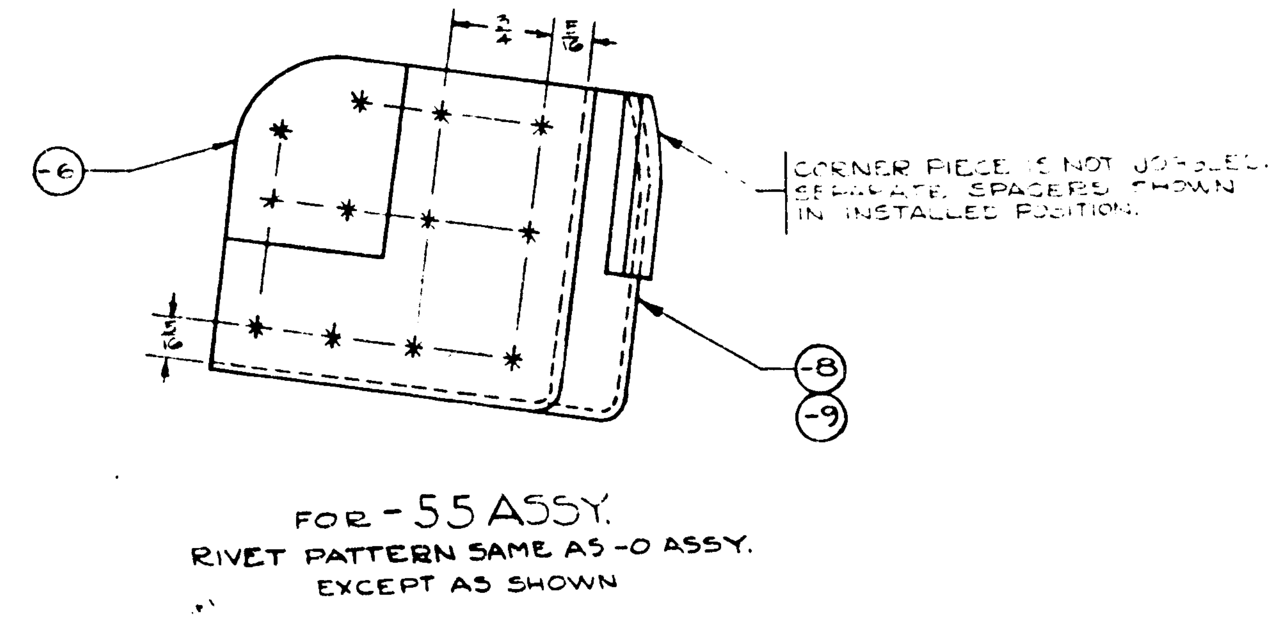
G DWG 28L057

R



S. TRACED. NO WT. CHG.
-6
-7
-55 ASSEM.
SPACER
28W200 2LH
28W200 3RH
-5
SLOT IN -2 & -3.
THIS RIVET PATTERN TO BE USED ON UN SLOTTED CORNERS ONLY
-2 LH.
-3 RH.
-0 ASSEM.
PRICK PUNCH DETAIL
DRILL ON ASSY
ALL HOLES
NOTE.
CORNERPIECE IS NOT JOGGLED SEPARATE SPACERS SHOWN IN INSTALLED POSITION
DRILL ON ASSY
SPAR FACE SIDE
SPACER
28W200 4LH.
28W200 5RH.
-4 SPACER
SPAR FACE SIDE
THIS VIEW AS
SHOWN FOR PBY-1 ONLY
NOTE:
CORNER RADII 1/8
ALL HOLES 3/16 DIA. ON ASS'Y.
P.PUNCH ON DETAIL.
ENG. FILE
FITTING-WING-GASTIGHT
CORNER-UPPER FRONT-ST.5
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF
G 28W058





NOTE:
1. ALL CORNER RADII ⅛ R.
ALL HOLES $\frac{3}{16}$ ON ASSY.
PRICK PUNCH DETAIL.

LET	ALTERATION	DATE	BY
S	NOTE "PRICK PUNCH---13 PLACES" WAS "PRICK PUNCH---14 PLACES" NO WT. CHG		

ASSY. DASH NO.	MODEL	NEXT ASSY	REQ.
-55L	28-5AMN	28W5555	1
-55L	28-5AMC	28W5555	1
-55L	28-5MN	28W5555	1
-55L	28-5MC	28W5555	1
-55	28-5MA	28W4155	1 EA
-55 (#4 & ON)	28-5ME	28W4155	1 EA
-0 (#1 TO 3)	28-5ME	28W4155	1 EA
-55	PBY-5B	28W4155	1 EA
-55	PBY-5A	28W5005	1 EA
-55 (#36 & ON)	PBY-5	28W5005	1 EA
-55 (#15 TO 35)	PBY-5	28W4005	1 EA
-0 (#1 TO 14)	PBY-5	28W4005	1 EA
-0	PBY-4	28W4005	
-0	PBY-3	28W3005	
-0	PBY-2	28W2005	
-0	PBY-1	28W005	

REQUIREMENTS PER AIRPLANE

REPLACES 28W069 OF 11-13-35 — .35 CALC. WT.
REPLACED BY — ACT. WT.
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ±.015 — SCALE 12" = 1'-0"
STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC	-0 LH	-0 RH	-55 LH	-55 RH	-3 LH	-3 RH	-4 LH	-4 RH	-5 LH	-5 RH
-9	.128 × 2¾ × 2⅞	ALCLAD	QQA362-T				1						
-8	.128 × 2¾ × 2⅞	ALCLAD	QQA362-T			1							
-7	.091 × 2¼ × 3½	ALCLAD	QQA362-T	1	1								
-6	.091 × 1$\frac{9}{16}$ × 1⅞	ALCLAD	QQA362-T	1	1	1	1						
-5	.091 × 1¾ × 1⅞	ALCLAD	QQA362-T	1	1	1	1						
-4	.091 × 1⅝ × 1¾	ALCLAD	QQA362-T	1	1	1	1						
-3	.128 × 5⅜ × 6	ALCLAD	QQA362-T		1								
-2	.128 × 5⅜ × 6	ALCLAD	QQA362-T	1									

PARTS LIST FOR ASSY.

A C	Z-P	11-13-35	[illegible]	MILLER		
NAVY		T.P.F.	5-11-37			4-26-37
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPR

NAME: FITTING--WING--GAS TIGHT CORNER UPPER REAR SPAR — STA. 5

OPP. HAND 28W069 R

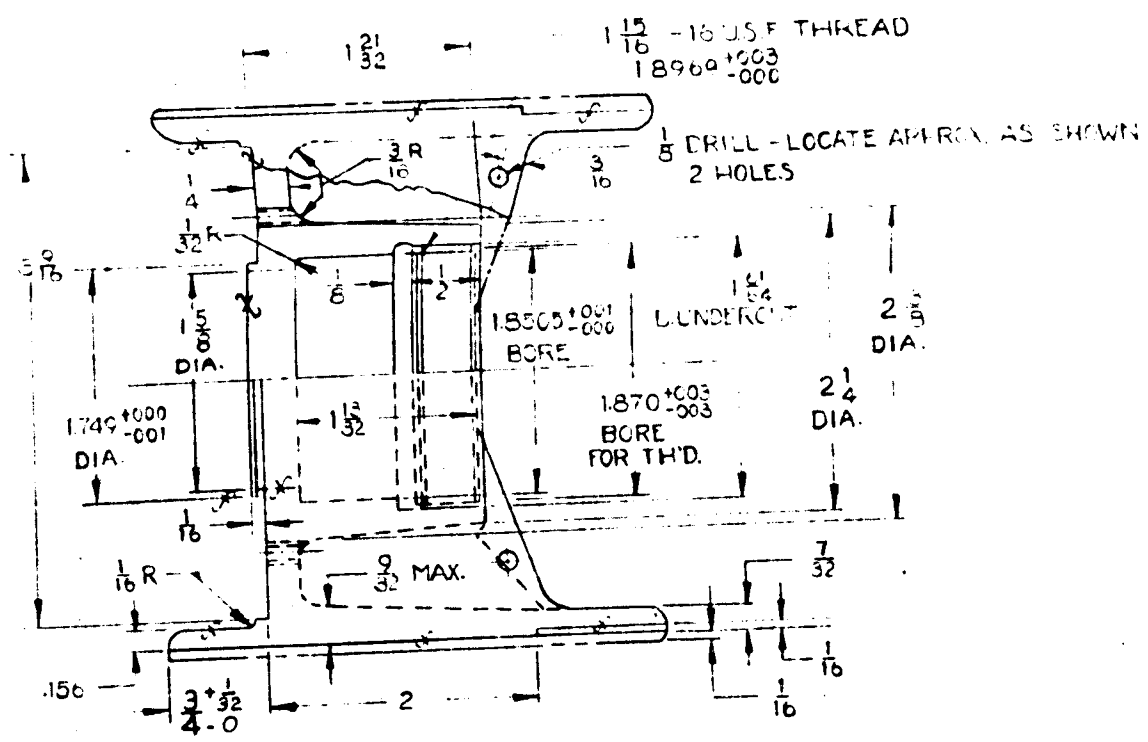
DWG SIZE G — 28W069

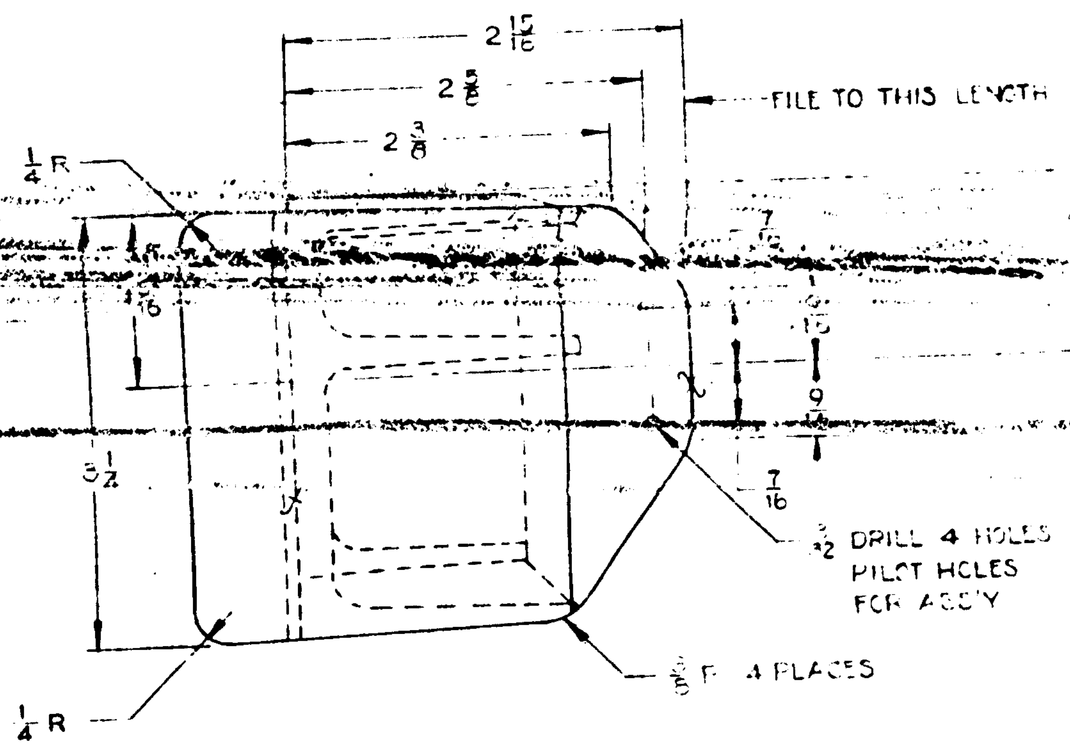
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF

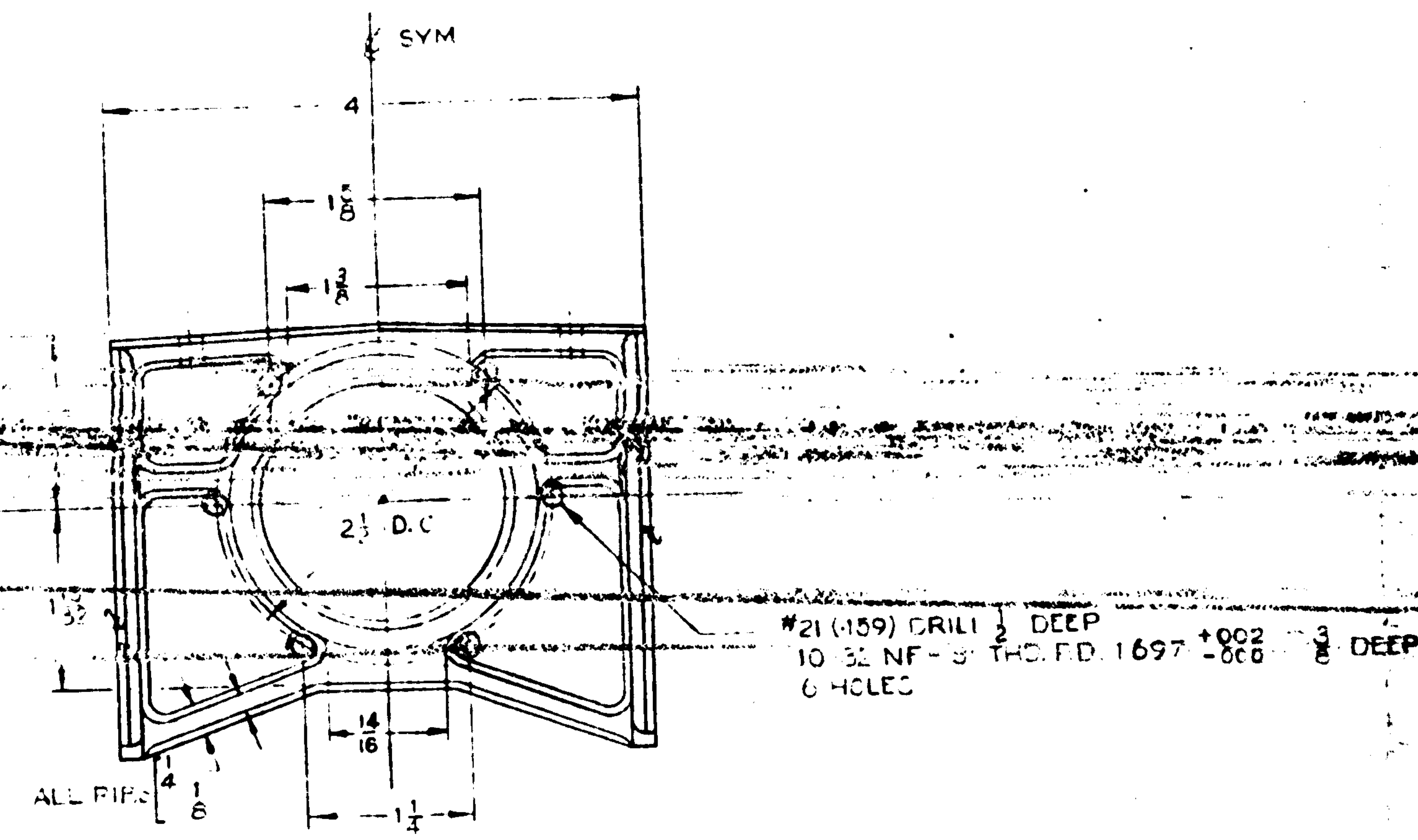
R 690M87

K-181

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				L	TRACED - NO WT. CHG	8-29-45	[illegible]







FINISH CODE	
Z	ANODIC TREATMENT
R	[illegible] PRIMER
GP	[illegible]
C	[illegible]

ASSY DASH NO.	MODEL	NEXT ASSY	NO.
	28-5M[illegible]	28W020	2 EA
	28-5M[illegible]	28W020	2 EA
	28-5M[illegible]	28W020	2 EA
	PBY-5B	28W020	2
	PBY-5[illegible]A	28W020	2 EA
	PBY-4	28W020-1	
	PBY-3	28W020	
	PBY-2	28W020-1	
	PBY-2	28W020	
	PBY-1	28W020-1	

REQUIREMENTS PER AIRPLANE

REPLACES 28W128 4-24-37 1.20 CALC. WT.

REPLACED BY — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ±.010 MACH. ±1/32 CAST. — SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.
●	FINISHED CASTING	AL ALLOY C.S.T.	46A-1

PARTS LIST PER ASSY. — REQ. -0, -2, -3, -4, -5

ENG. FILE

A.C. NAVY 32,000# HEAT TREAT — Z - P - GP FINISH

DRAFT 5-12-34 | CHECK W.M. 8-11-37 | APPROV. LCW 4-24-37

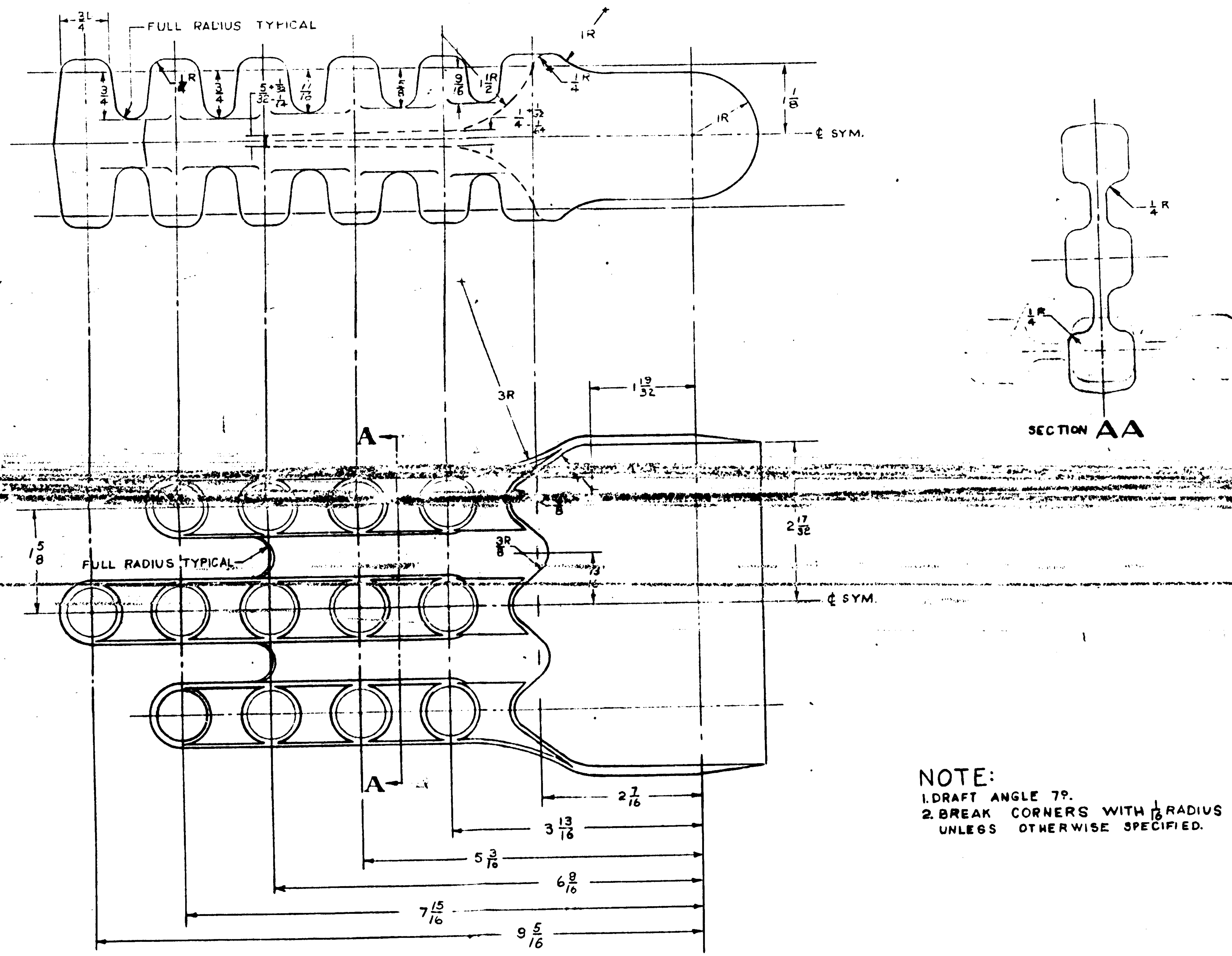
NAME FITTING - WING FLOAT RETRACT MECH. SCREW INNER

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

G 28W128

R 28W128

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				L	TRACED NO WT. CHG.	[illegible]	[illegible]



NOTE:
1. DRAFT ANGLE 7°.
2. BREAK CORNERS WITH $\frac{1}{16}$ RADIUS UNLESS OTHERWISE SPECIFIED.

ASSY DASH No	MODEL	NEXT ASSY	REQ.
	PBY-5A	28W1020	2
	PBY-5A	28W1019	2
	PBY-5	28W1019	2
	PBY-5	28W1020	2
	PBY-5B	28W1019	2
	PBY-5B	28W1020	2
	28-5MNCAMN	28W1019	2EA
	28-5MNCAMN	28W1023	2EA
	28-5MCEIMC	28W1019	2EA
	28-5MCCAMC	28W1020	2EA
	28-5MAEME	28W1019	2EA
	28-5MAEME	28W1020	2EA
	PBY-3,4	28W1019	
	PBY-3,4	28W1020	
	PBY-1,2	28W1019	
	PBY-1,2	28W1020	

REQUIREMENTS PER AIRPLANE

REPLACES 29W1009 OF 4-23-35 — CALC. WT. SEE N.A.

REPLACED BY — ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED $+\frac{3}{64} - \frac{1}{32}$ — SCALE 12" = 1'0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.	LH RH REQ. -0	LH RH REQ. -2	LH RH REQ. -3	LH RH REQ. -4	LH RH REQ. -5
-6	FORGING	AL. AL. 46A T GR. B						

PARTS LIST PER ASSY.

HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG
A C NAVY 65,000#	NONE	WAINWRIGHT 9-12-35	THURBER 5-12-35	MILLER		LCW 4-23-35	

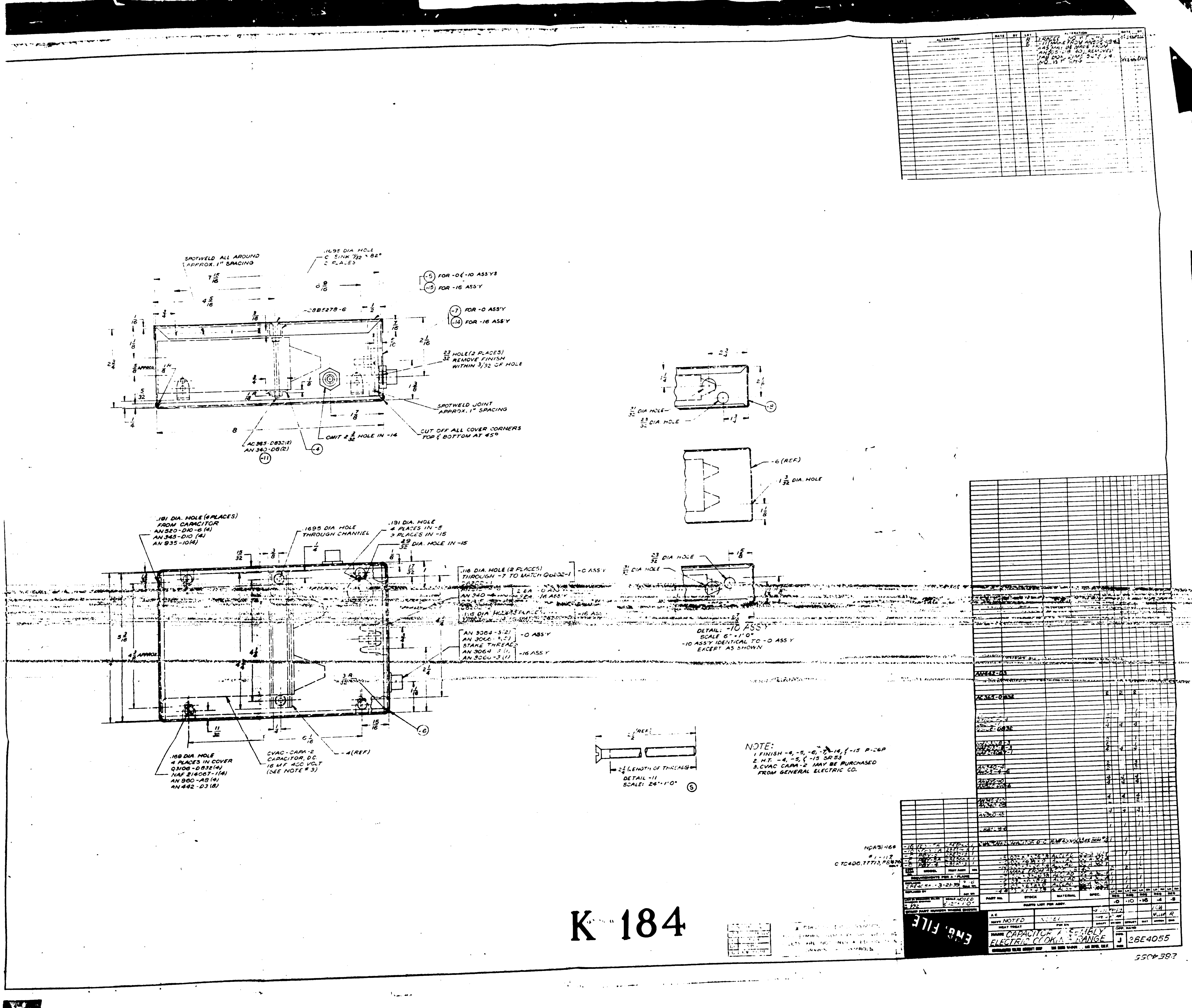
OPP. HAND

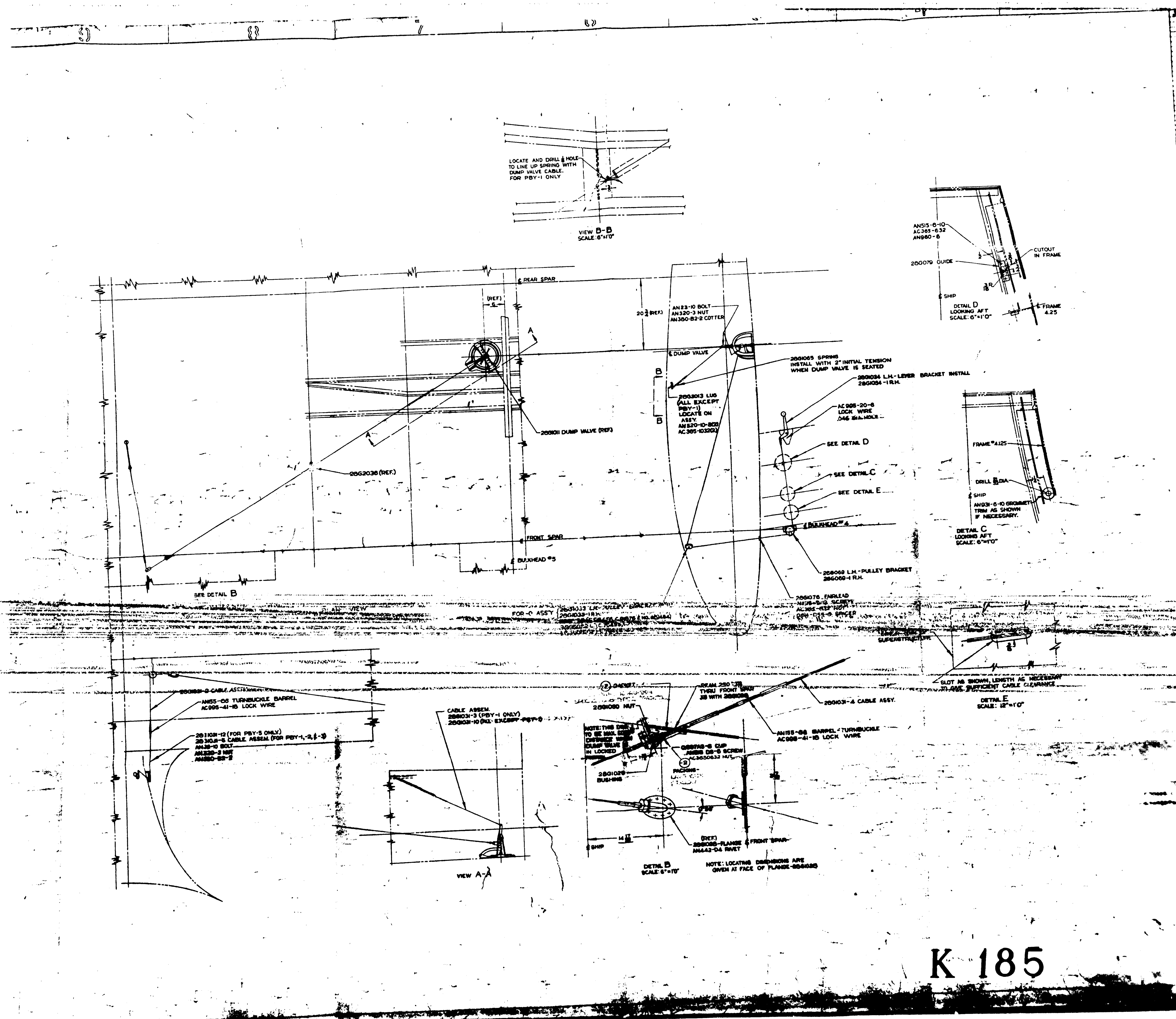
NAME FORGING - WING - BRACE STRUT FITTING - LOWER

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

DWG. SIZE G 28W1009

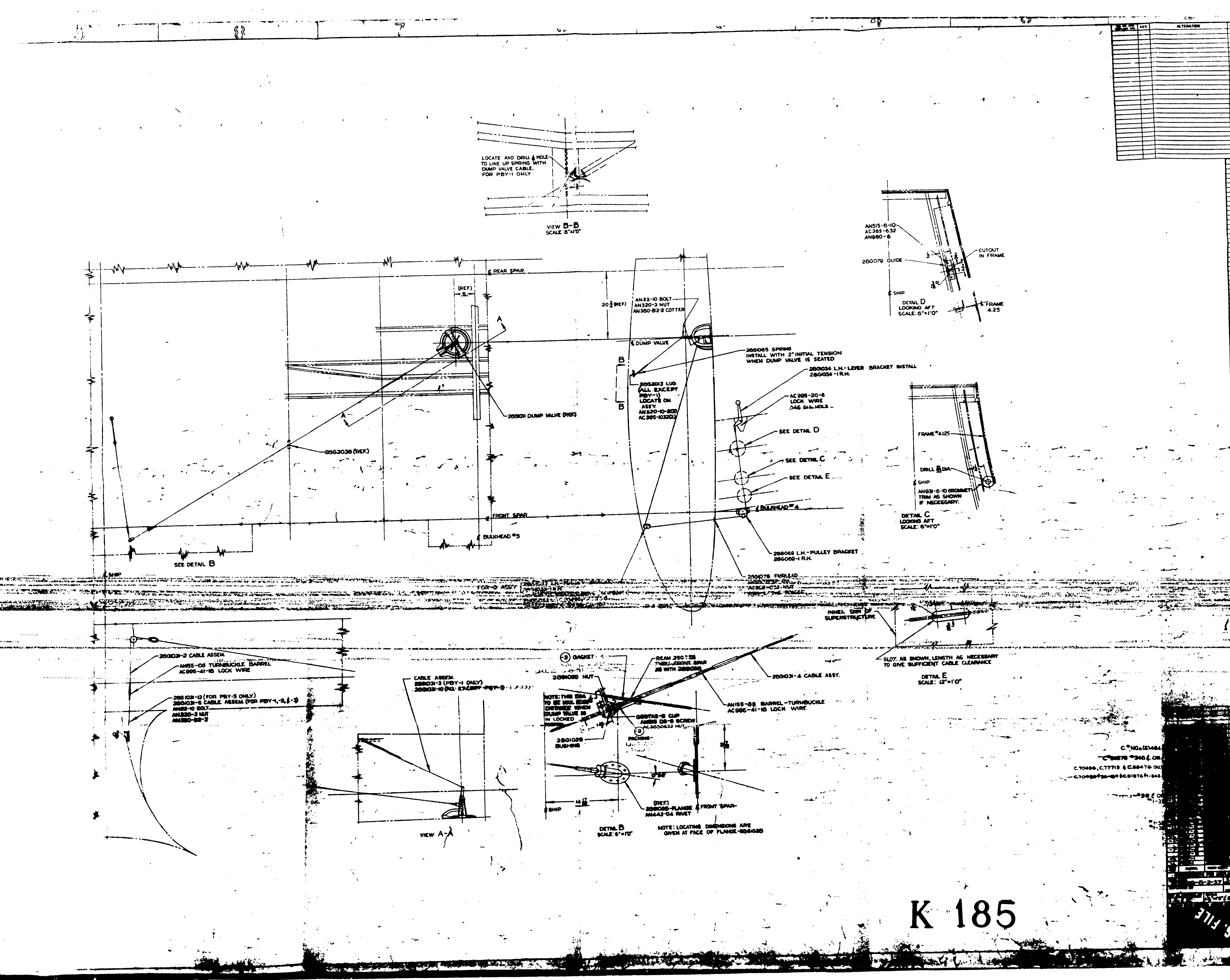
28W1009

SPOTWELD ALL AROUND APPROX. 1" SPACING
.1695 DIA. HOLE
28B5278-6
FOR -0 & -10 ASSY'S
FOR -16 ASS'Y
FOR -0 ASS'Y
FOR -16 ASS'Y
23/32 HOLE (2 PLACES) REMOVE FINISH WITHIN 3/32 OF HOLE
SPOTWELD JOINT APPROX. 1" SPACING
CUT OFF ALL COVER CORNERS TOP & BOTTOM AT 45°
OMIT 2 3/32 HOLE IN -14
AC365-D832(8)
AN 340-D8(2)
-6 (REF)
1 3/32 DIA. HOLE
.191 DIA. HOLE (8 PLACES) FROM CAPACITOR
AN520-D10-6 (4)
AN345-D10 (4)
AN 935-10(4)
.1695 DIA HOLE THROUGH CHANNEL
.191 DIA. HOLE 4 PLACES IN -5 3 PLACES IN -15
29/32 DIA. HOLE IN -15
.116 DIA. HOLE (2 PLACES) THROUGH -7 TO MATCH Q6202-1
-0 ASS'Y
-16 ASS'Y
AN 3064-3(2)
AN 3066-3(2)
STAKE THREADS
DETAIL: -10 ASS'Y SCALE 6" = 1'0"
-10 ASS'Y IDENTICAL TO -0 ASS'Y EXCEPT AS SHOWN
.169 DIA. HOLE 4 PLACES IN COVER
NAF 214067-1(4)
AN 960-A8 (4)
AN 442-D3 (8)
CVAC-CAPA-2 CAPACITOR, D.C. 16 MF 400 VOLT (SEE NOTE # 3)
-4 (REF)
DETAIL -11 SCALE: 24" = 1'0"
NOTE:
1. FINISH -4, -5, -6, -7, -14, & -15 P-26P
2. H.T. -4, -5, & -15 SR 53
3. CVAC CAPA-2 MAY BE PURCHASED FROM GENERAL ELECTRIC CO.
PARTS LIST FOR ASSY
K 184
ENG. FILE
CAPACITOR ASSEMBLY
ELECTRIC COOKING RANGE
J
28E4055



LOCATE AND DRILL HOLE TO LINE UP SPRING WITH DUMP VALVE CABLE. FOR PBY-1 ONLY
VIEW B-B
SCALE: 6"=1'0"
℄ REAR SPAR
(REF.)
AN23-10 BOLT
AN320-3 NUT
AN380-B2-2 COTTER
℄ DUMP VALVE
28G1065 SPRING
INSTALL WITH 2" INITIAL TENSION WHEN DUMP VALVE IS SEATED
28G1034 L.H. LEVER BRACKET INSTALL
28G1034-1 R.H.
28G1013 LUG (ALL EXCEPT PBY-1)
LOCATE ON ASSY.
28G1011 DUMP VALVE (REF.)
SEE DETAIL D
SEE DETAIL C
SEE DETAIL E
28G2036 (REF.)
℄ BULKHEAD #4
FRONT SPAR
℄ BULKHEAD #5
28G069 L.H. PULLEY BRACKET
28G069-1 R.H.
SEE DETAIL B
28G1076 FAIRLEAD
PLAN VIEW
AN515-6-10
AC365-632
AN960-6
28G079 GUIDE
CUTOUT IN FRAME
℄ SHIP
DETAIL D
LOOKING AFT
SCALE: 6"=1'0"
℄ FRAME 4.25
FRAME #4.125
DRILL DIA.
AN931-6-10 GROMMET TRIM AS SHOWN IF NECESSARY.
DETAIL C
LOOKING AFT
SCALE: 6"=1'0"
SUPERSTRUCTURE
SLOT AS SHOWN, LENGTH AS NECESSARY TO GIVE SUFFICIENT CABLE CLEARANCE
DETAIL E
SCALE: 12"=1'0"
AN155-C8 TURNBUCKLE BARREL
AC995-41-16 LOCK WIRE
28G1031-12 (FOR PBY-5 ONLY)
CABLE ASSEM.
28G1031-3 (PBY-1 ONLY)
VIEW A-A
28G1060 NUT
28G1031-4 CABLE ASSY.
AN155-08 BARREL-TURNBUCKLE
AC995-41-16 LOCK WIRE
28G1029 BUSHING
PACKING
℄ SHIP
(REF)
℄ FRONT SPAR
AN442-04 RIVET
DETAIL B
SCALE: 6"=1'0"
NOTE: LOCATING DIMENSIONS ARE GIVEN AT FACE OF FLANGE

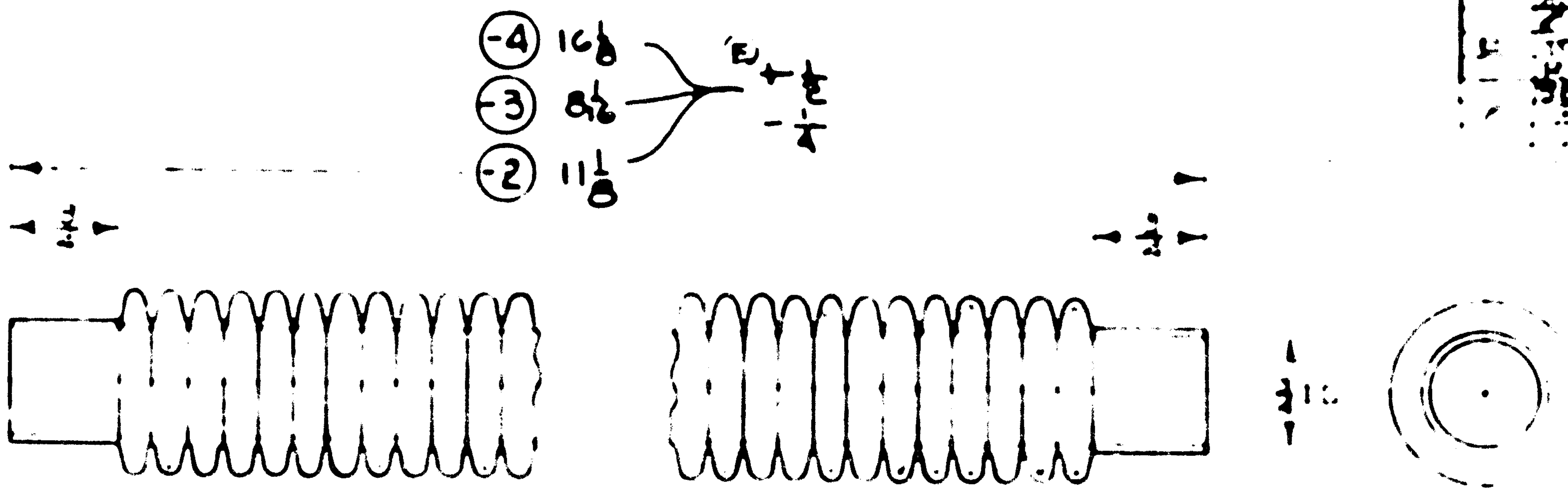
K 185


LOCATE AND DRILL HOLE TO LINE UP SPRING WITH DUMP VALVE CABLE. FOR PBY-1 ONLY
VIEW B-B SCALE: 6"=1'0"
AN515-6-10
AC363-632
AN960-6
28G079 GUIDE
CUTOUT IN FRAME
℄ SHIP
DETAIL D LOOKING AFT SCALE: 6"=1'0"
FRAME 4.25
℄ REAR SPAR
(REF.)
20¾ (REF.)
AN23-10 BOLT
AN320-3 NUT
AN380-B2-2 COTTER
℄ DUMP VALVE
28G1065 SPRING INSTALL WITH 2" INITIAL TENSION WHEN DUMP VALVE IS SEATED
28G1034 L.H.-LEVER BRACKET INSTALL 28G1034-1 R.H.
28G3013 LUG (ALL EXCEPT PBY-1) LOCATE ON ASSY.
AN320-10-8
AC365-1032
AC995-20-6 LOCK WIRE .046 DIA. HOLE
28G1011 DUMP VALVE (REF.)
28G2036 (REF.)
SEE DETAIL D
SEE DETAIL C
SEE DETAIL E
FRAME 4.125
DRILL DIA.
AN931-6-10 GROMMET TRIM AS SHOWN IF NECESSARY.
DETAIL C LOOKING AFT SCALE: 6"=1'0"
FRONT SPAR
℄ BULKHEAD 4
℄ BULKHEAD 5
SEE DETAIL B
28G069 L.H.-PULLEY BRACKET 28G069-1 R.H.
28G1076 FAIRLEAD
INNER SKIN OF SUPERSTRUCTURE
SLOT AS SHOWN, LENGTH AS NECESSARY TO GIVE SUFFICIENT CABLE CLEARANCE
DETAIL E SCALE: 12"=1'0"
28G1031-2 CABLE ASSEM.
AN155-05 TURNBUCKLE BARREL
AC995-41-18 LOCK WIRE
28G1031-12 (FOR PBY-5 ONLY)
28G1031-5 CABLE ASSEM. (FOR PBY-1,-2,&-3)
AN23-10 BOLT
AN320-3 NUT
AN380-B2-2
CABLE ASSEM.
28G1031-3 (PBY-1 ONLY)
GASKET
28G1030 NUT
28G1031-4 CABLE ASSY.
AN155-8B BARREL-TURNBUCKLE
AC995-41-18 LOCK WIRE
28G1029 BUSHING
PACKING
(REF.)
28G1028-FLANGE ℄ FRONT SPAR
AN442-04 RIVET
℄ SHIP
VIEW A-A
DETAIL B SCALE: 6"=1'0"
NOTE: LOCATING DIMENSIONS ARE GIVEN AT FACE OF FLANGE-28G1028
ALTERATION
K 185



LOCATE AND DRILL HOLE TO LINE UP SPRING WITH DUMP VALVE CABLE. FOR PBY-1 ONLY
VIEW B-B
REAR SPAR
DUMP VALVE
AN23-10 BOLT
AN320-3 NUT
AN380-B2-2 COTTER
28G1065 SPRING INSTALL WITH 2" INITIAL TENSION WHEN DUMP VALVE IS SEATED
28G1034 L.H.-LEVER BRACKET INSTALL
28G1034-1 R.H.
28G1011 DUMP VALVE (REF.)
28G2036 (REF.)
SEE DETAIL D
SEE DETAIL C
SEE DETAIL E
FRONT SPAR
BULKHEAD #4
BULKHEAD #5
28G069 L.H.-PULLEY BRACKET
28G069-1 R.H.
SEE DETAIL B
AN515-6-10
AC365-632
AN960-6
28G079 GUIDE
CUTOUT IN FRAME
SHIP
DETAIL D
LOOKING AFT
FRAME 4.25
FRAME #4.125
AN931-6-10 GROMMET TRIM AS SHOWN IF NECESSARY.
DETAIL C
LOOKING AFT
INNER SKIN OF SUPERSTRUCTURE
SLOT AS SHOWN, LENGTH AS NECESSARY TO GIVE SUFFICIENT CABLE CLEARANCE
DETAIL E
28G1031-2 CABLE ASSEM.
AN155-OS TURNBUCKLE BARREL
AC995-41-16 LOCK WIRE
28G1031-4 CABLE ASSY.
AN155-8S BARREL-TURNBUCKLE
AC995-41-16 LOCK WIRE
28G1029 BUSHING
VIEW A-A
DETAIL B
NOTE: LOCATING DIMENSIONS ARE GIVEN AT FACE OF FLANGE
FRONT SPAR
K 185
ENG. FILE

REDRAWN & REVISED



PURCHASE TO DWG

PART NO. MODEL

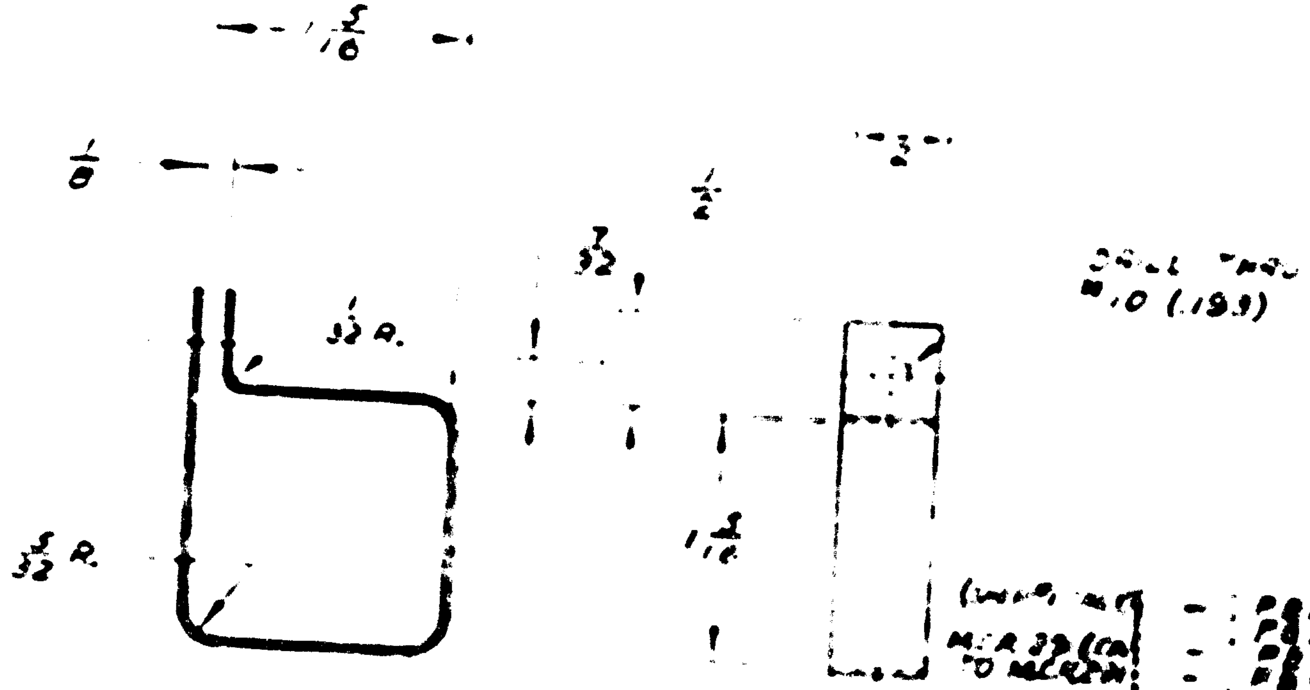
12'-1.0"

MATERIAL TO BE U S RUBBER CO
STOCKINETTE COVER
BELLOWS TYPE TUBING.

NAME FLEXIBLE HOSE — AIR VENT
- SELF SEALING FUEL CELLS

B 32G1067

CONSOLIDATED AIRCRAFT CORP

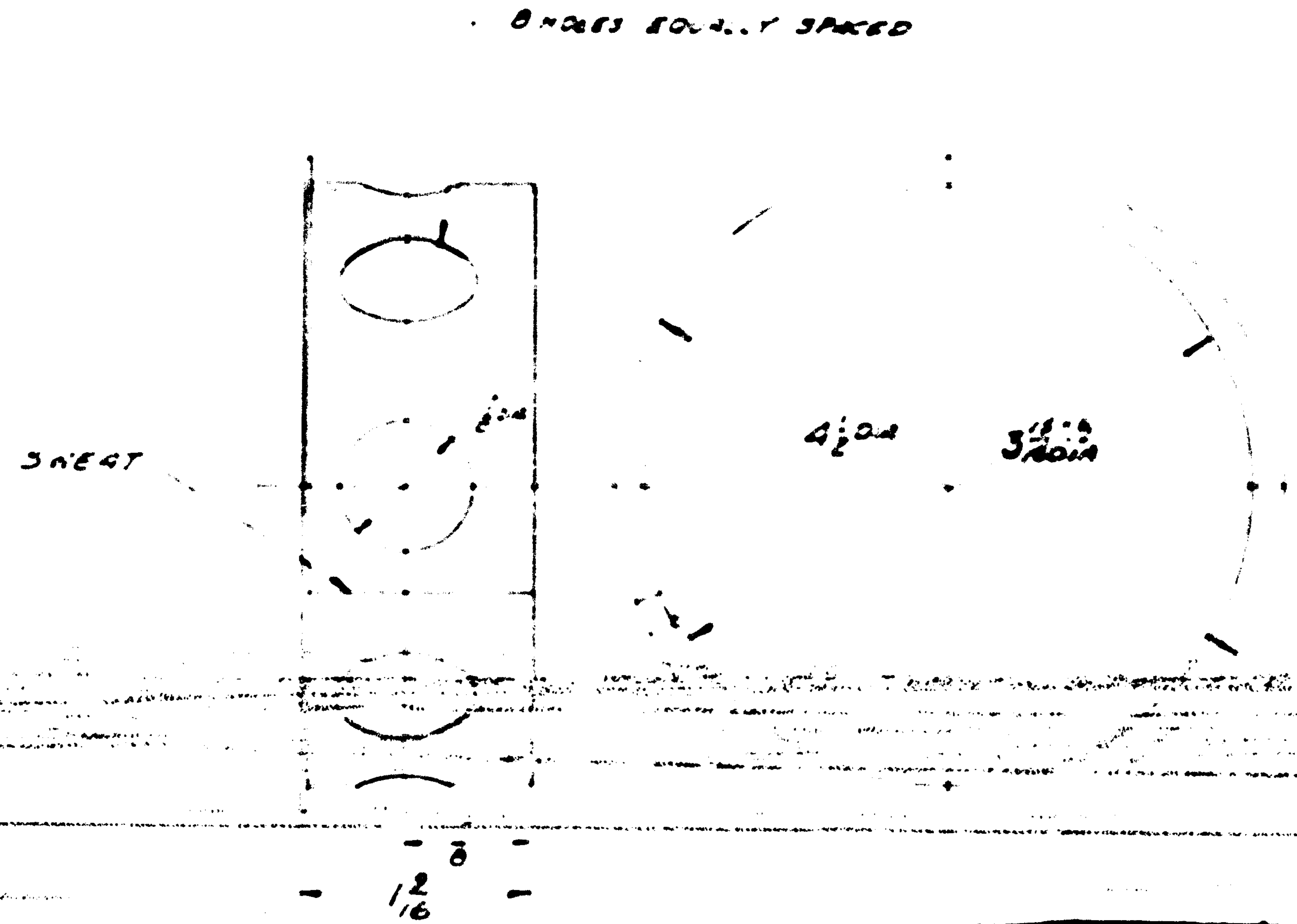


NOTE
USED ON PBY-3 SHIPS #1 - 3 INCL & #60 TO 66 INCL

2P3003

CLIP-PROP ANTI-ICER
OIL LINE

B 28P3003



PART IDENTICAL WITH 20052 (CH A)

OPPOSITE HAND

Drawing applies on		Detail parts per assembly
22P098	2	
22P098	2	

Drawing applies on		
P4Y-1 22P098		
P4Y-2 22P098	1	8

Ltr.	Changed	Date	Ch. By
G	PB2Y-2 REQS ADDED	10-9-9	
F	3 13/16 DIA WAS 4	4-28	
E	PBY-1 CORRECTIONS ADDED	10-28-35	
D		3-15-35	

SCALE 1/1

MATERIAL .032 SHEET BRASS

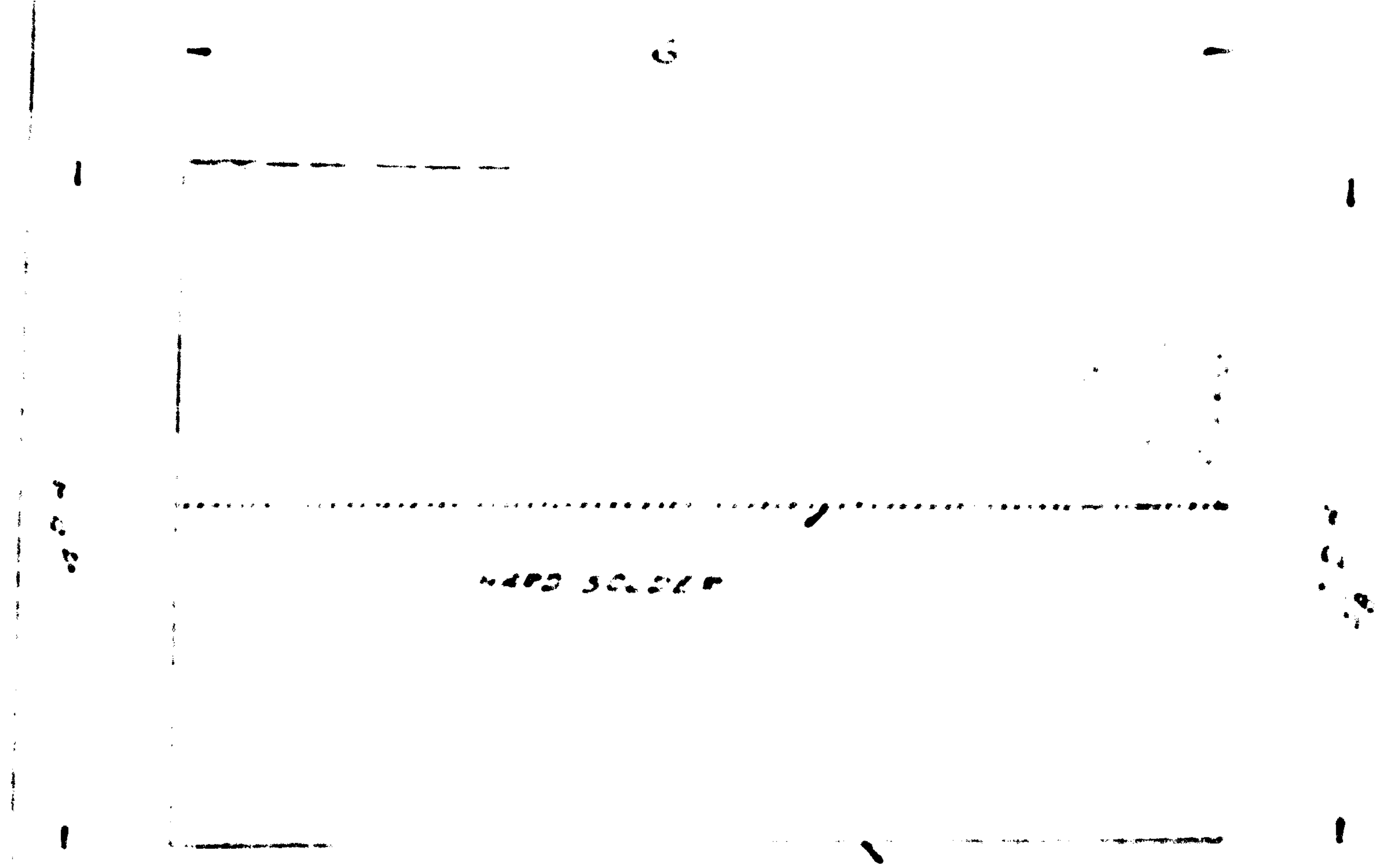
SPEC. No. 47B2

HEAT TREAT: NONE

FINISH: NONE

RING - OIL TANK STRAINER UPPER

CONSOLIDATED AIRCRAFT CORPN. DR'WG. No 22P098

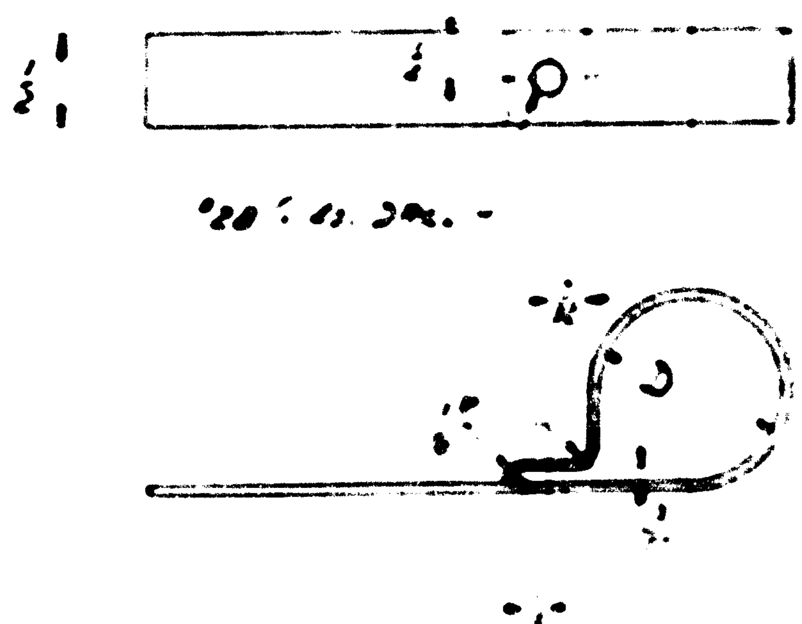


CHANGED DATE

DRWG No 22P101

OPPOSITE HAND

CHANGE APPLIES ON		DETAIL PARTS PER ASSEMBLY
-3 PBY-5A 28E4014	1	
-13 PBY-5A 28F2199	14	
-15 PBY-5B 28F2199	14	



DASH NO.	"D"	DEV. LENGTH	"A"	"B"
-1	1/8	5	[illegible]	.02
-2	[illegible]	5 1/2	.02	.02
-3	1/4	5 5/8	.02	.03
-4	3/8	5 7/8	[illegible]	.03
-5	1/2	7	.05	.05
-6	5/8	6 1/2	.109	.03
-7	3/4	6 5/8	.06	[illegible]
-8	1	6 3/4	.03	.06
-9	1 1/4	7 1/2	.07	.08
-10	1 1/2	8 1/2	.09	.121
-11	2	9 1/2	.12	.125
-12	[illegible]	3 1/2	[illegible]	
M -13	1/4	4		
-14	1/4	2 1/2		

USE DWG FOR ALL FUTURE IF POSSIBLE

TO BE USED WITH

CONSOL. PBY-4, PBY-3, PBY-2, PBY-1 — SEE B.M.

2 AN1

LTR	CHANGED	DATE	CH BY
O	ADDED -14	6-15-39	
N	MAT'L CHANGED TO ALCLAD	6-19-39	
M	ADDED -13	9-28-37	
L	TRACED UP TO DATE	3-26-35	

SCALE 2/1

MATERIAL .041 ALCLAD — SPEC. 47AB COND. T

HEAT TREAT NONE

FINISH NONE

DRAFTSMAN [illegible] 8-10-32

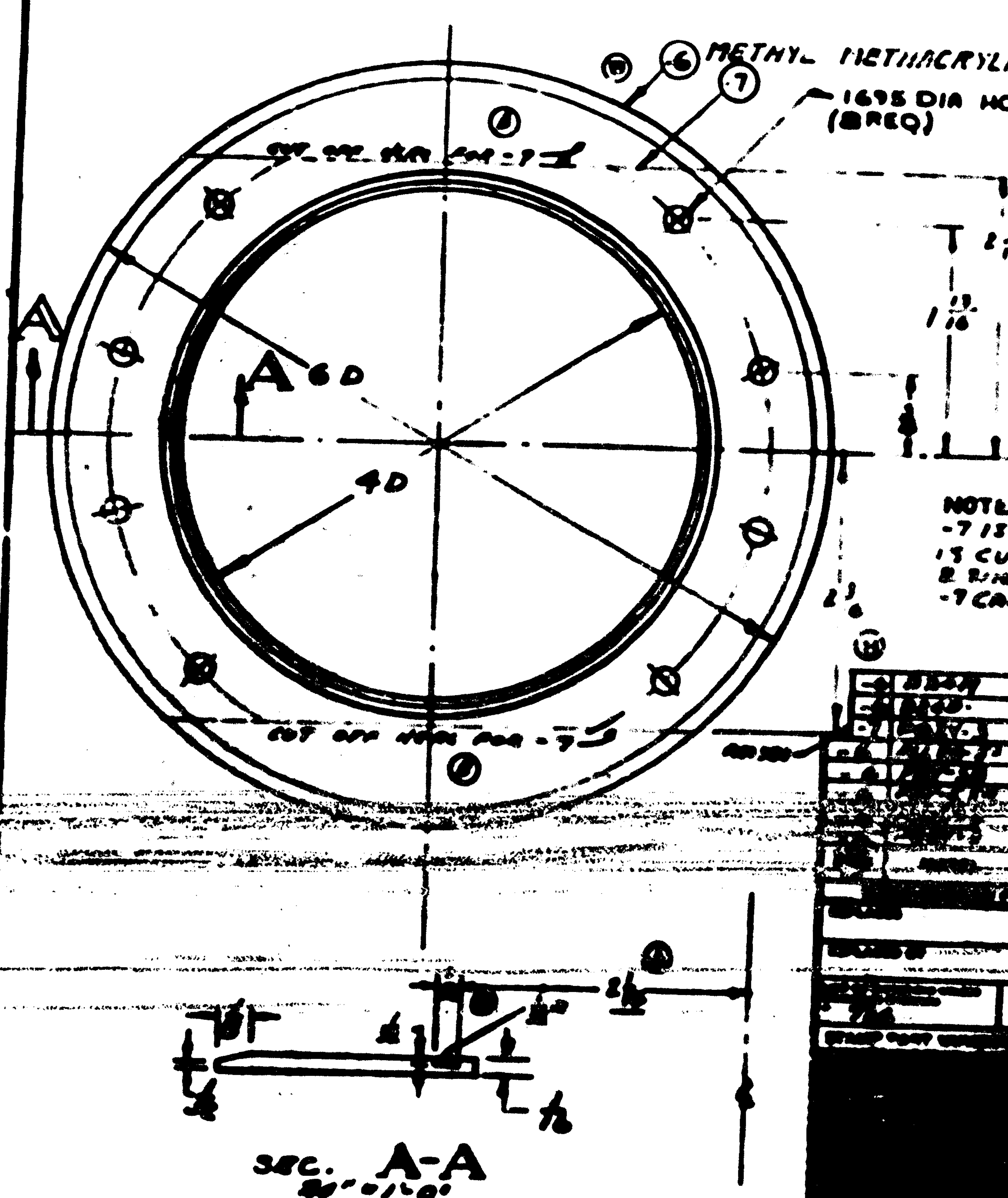
STRENGTH & WT. EXAM.

CHECKED

APPROVED & RELEASED

CLIP - ELECTRICAL - CONDUIT - LOOP TYPE "A"

CONSOLIDATED AIRCRAFT CORP'N — DRWG. No 22Q121



NOTE
-7 IS THE SAME AS -6 EXCEPT -7
IS CUT OFF IN TWO PLACES AS PER
DIMENSIONS & .1695 DIA HOLES
-7 CAN BE MADE FROM -6

LET	ALTERATION
A	
B	
C	
D	-6 WAS CELLULOID (COMM. TYPE)

MCR 597

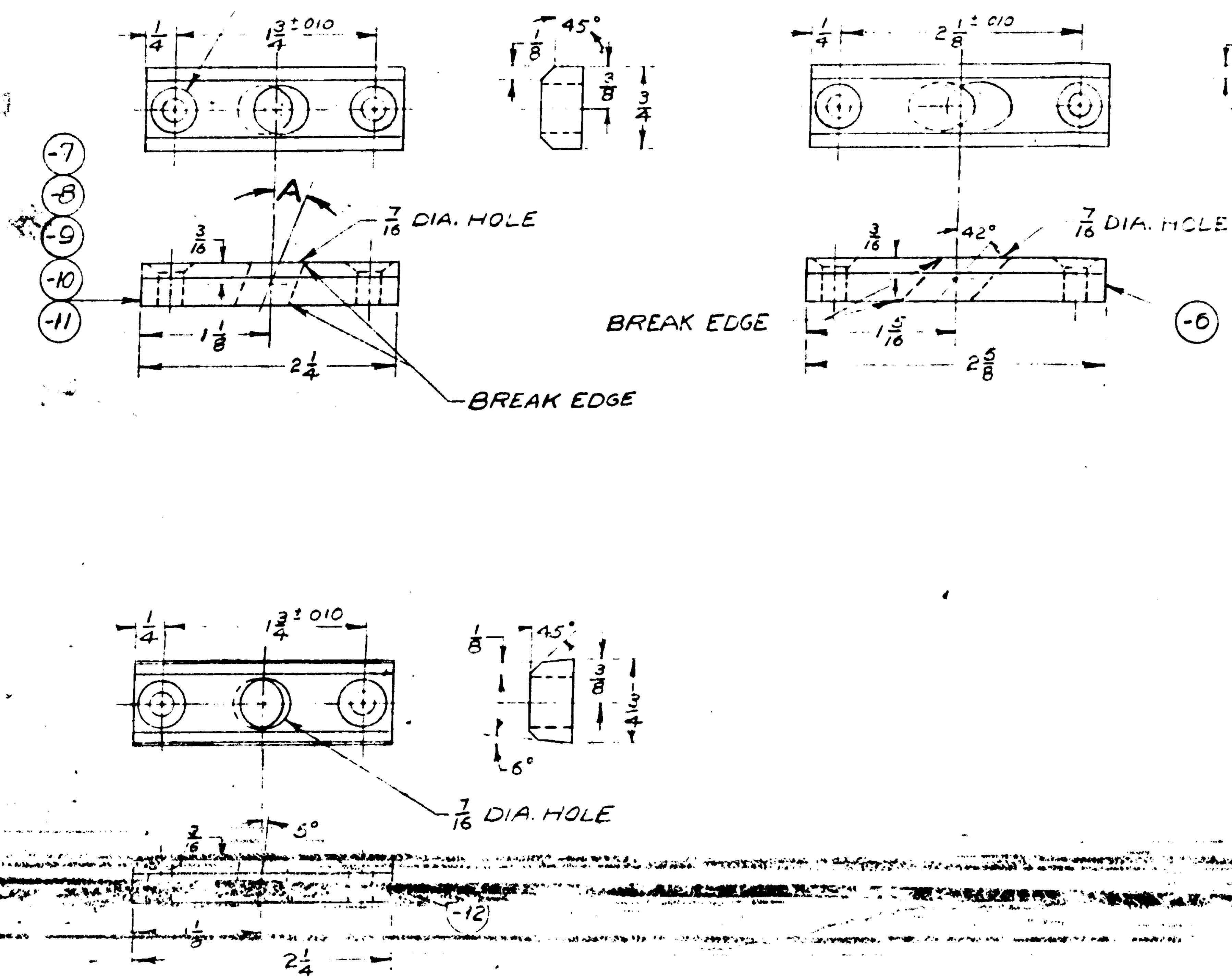
SILL-INSPECTOR DOOR

CONSOLIDATED AIRCRAFT CORP.

29T1194

LET	ALTERATION	DATE	BY
C	TRACED NO WT. CHG.	9-27-43	B FOX

-DRILL #7 (.201)
C'SINK. 100° X .402 ± .010 DIA.
2 HOLES IN EACH SUPPORT



NO	A
-7	8°
-8	14°
-9	20°
-10	28°
-11	5°

#25 [illegible]

ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ
	28-5AMC	28B5461	Δ
	[illegible]	[illegible]	Δ
	28-5MC	28B5461	Δ
	28-5MA	28B5461	Δ
	PBY-5B	28B5461	Δ
	28-5'S ALL	28B5180	Δ
	PBY-5B	28B5180	Δ
	PBY-5A	28B5180	Δ
	PBY-5	28B5180	Δ

REQUIREMENTS PER AIRPLANE

Δ AS PER DW'G

REPLACES 28B5145 — .043 # CALC WT

REPLACED BY — ACT. WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1° & 1/32 — SCALE 12" = 1'-0

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC.	-0 REQ. LH	-0 REQ. RH	-2 REQ. LH	-2 REQ. RH	-3 REQ. LH	-3 REQ. RH	-4 REQ. LH	-4 REQ. RH	-5 REQ. LH	-5 REQ. RH
-12	3/8 x 3/4 x 2 1/4	PHENOLIC	17P5-FBG-S	1									
-11				1									
-10				1									
-9				1									
-8				1									
-7	3/8 x 3/4 x 2 1/4			1									
-6	3/8 x 3/4 x 2 5/8	PHENOLIC	17P5-FBG-S	1									

PARTS LIST PER ASSY.

A C		6-1-40	LOC			H.P.Z	
NAVY —	—	FRINDT		GREEN	6-6-40	6-6-40	R
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG.

NAME ROD SUPPORT - HULL BOMBER'S WINDOW COVER

OPP. HAND

DWG. SIZE D — 28B5185

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

R 28B5185

TABLE OF CONTENTS

TABLE OF CONTENTS

CHECKED

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INTRODUCTION

This report is written to include all details of Navy Specification #SR-16E which pertain to Consolidated Aircraft Corporation airplanes that are being built for the Bureau of Aeronautics.

Paragraph numbers in this report correspond to those in Specification SR-16E.

Report #28E4027-1 is for Army Air Corps contracts and is in accordance with Air Corps Specification #32310A, dated Oct. 20, 1941.

Revised
Dec. 1, 1941.

C. F. McCabe
(Signed)

BY

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STANDARD BONDING PARTS

Bonding Parts Called for by Part Name are to be of the following types and sizes:

Self-Tapping Screw: To be in accordance with Navy Department Specification S-92, Sizes: #632 x 3/8, #632 x 1/2, #632 x 5/8, #832 x 1/2, #832 x 5/8, #1024 x length as required.

EXTERNALLY Toothed lockwasher: Shakeproof, or equivalent, AN - 936 Style B.

Aluminum Alloy Screw: AN515D8-, Q5106D10- Lengths as required.

Steel Screw: AN515-8-, AN520-10- lengths as required.

Aluminum Alloy Stop Nut: AC365D832, AC365D1032.

Steel Stop Nut: AC365-832, AC365-1032.

Aluminum Washer: AN960AL8, AN960AL10.

Alclad Clamp: Q908AL-(diameter as required)-8, Q925AL-(diameter as required).

Steel Clamp: Q908-(diameter as required)-8, Q907-(diameter as required)-8.

Phosphor Bronze Clamp: Q907P-(diameter as required) -8, Q925P-(diameter as required.

Bonding Braid Assembly: Q508 (terminals, width & length and material as required).

Steel Plain Nut: AN340-8, AN345-10

Alum Alloy Plain Nut: AN340D8, AN345D10

Steel Wing Nut: AN350-1032.

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GENERAL INSTRUCTIONS & EXPLANATIONS

1. Details of bonds are type details only.
2. Where finish is to be removed for bonding, surfaces are to be scraped free of all protective coating including anodic film but not cadmium plating, then to be thoroughly cleaned with carbon tetrachloride or alcohol and dried immediately prior to placing the bond.
3. As soon as possible after completing the bond and immediately before application of the finish, the joint shall be given a final cleaning with carbon tetrachloride or alcohol.
4. Bonds shall be given one coat of primer and then finished to match the adjacent surface.
5. Never remove anodic film or other finish from any basic structural part.
6. Where possibility exists of vibrating contact between any metal parts, the parts shall be insulated with one layer of shellacked friction tape; where this tape is used under the support clips, the tubing must be bonded as illustrated. This applies to all vacuum, air, or liquid lines.
7. All electric conduit, fuel, and oil system piping, instrument tubing, and fire extinguisher lines shall be bonded through support clips at regular intervals, or as shown on details.
8. Any joints which show a resistance of more than .0025 ohms when tested shall be bonded.
10. Locate all bonds across hinges, etc. so as to have a minimum of bending. If bond rubs against structure and is subject to salt water, use aluminum cable.
11. Install all bonds so that they do not interfere with the full travel of the parts bonded.
12. No self-tapping screws are to be used in conduits which are used for electric wires, fuel, or oil lines.
13. All materials used for bonding or insulating shall conform to Navy Department specifications as listed in paragraph F-1 of specification [illegible].
14. All self-tapping screws to be in accordance with Navy Department Spec. [illegible].
15. All internal lock washers to be in accordance with AN 936.
16. All Air Corps bonding to be in accordance with Handbook of Instructions for Airplane Designers, Volume II, Sec. VI, Part III, Pages 1234 to 1237 inclusive, revision of July 1, 1939.
17. Use table given below for drill sizes for Navy [illegible] self-tapping screws:

Screw	METAL GAUGE – ALUMINUM OR ALUMINUM ALLOY				
	.022 to [illegible]	.023 to [illegible]	.051 to [illegible]	.091 to [illegible]	.123 & Over
[illegible]	[illegible]	[illegible]	[illegible]	#34(.111)	#33(.113)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Screw	.032 to [illegible]	.064 to [illegible]	.123 to [illegible]	.375 to [illegible]	[illegible]
[illegible]	#33(.113)	#31(.120)	#31(.120)	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	#26(.147)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	#21(.159)	[illegible]	[illegible]	[illegible]	[illegible]

CHECKED

December 1, 1941

Bonding requirements for Army Air Corps Aircraft

Note 1. This report is taken from Air Corps Specification #32310A dated October 20, 1941 and supersedes all 28E4027-1 reports previous to the date of this revision.

Note 2. This report must be followed very closely by all departments.

Note 3 —

BY

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D-8 BONDING

D-8A Bonding is required to make all parts of the airplane an integral electrical mass. A bond is a good electrical connection which has a resistance approximately equal to that which would exist if the two parts were integral. When bonds are used they shall conform to Q508 whenever possible.

D-8b The number of bonds which are required in a given airplane can be reduced to a minimum by carefull design. Parts which are insulated do not require bonding. Joints which form good electrical connections and whose resistance values do not exceed those given below require no bonding. Parts which are dropable in flight require no bonding. Normally those parts which can vibrate and thereby make intermittent or high resistance contact with the structure are the only ones which require bonding.

D-8c Bonds shall be in accordance with Q508, except in special cases. For special bonds consult the Electrical Group.

D-8d Not less than 4 bonds of not less than 50 amperes capacity each shall be installed across the shock absorbing elements of the engine mount. The prefered installation is a bond of not less than 40 amperes capacity across each shock absorbing element.

D-8e The distance between bonds is not restricted. However, this distance shall be such that the resistance values of Paragraph D-8f are not exceeded. When making bonds between two metal parts these parts shall be free of protective coating or finish before the two parts are jointed. After the bond is made a protective coating shall be applied.

D-8f The bonding of the completed airplane shall be tested with a milliohmeter by measuring the resistance between the aircraft structure and the various items of equipment. The resistance from items of electrical and radio equipment including their mountings to structure shall not exceed .001 ohm. The resistance from engine to engine mount shall not exceed .001 ohm. The resistance from structure to other items such as control surfaces, instrument Board, bomb racks, cowling, nacelle covering, seats etc., shall not exceed .004 ohm.

D-8g The following bonding requirement shall be applicable to each aircraft:

D-8g(1) Control surfaces such as ailerons, rudder, [illegible] elevators shall have not less than [illegible]. This requirement does not apply to trim tabs.

D-8g(2) Ring Cowling shall be bonded to the engine by the use of not less than four symmetrically located bonds. These bonds shall conform to fig 1 AC spec. 32310 "A".

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D-8g(3) The conduit which shields the magneto primary cables shall be bonded at intervals of approximatėly 18 inches or to the nearest structure.

BY
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APPROVED

MODEL | AIRPLANE | REPORT NO

SR-16e
1 June 1938
Superseding
SR-16d
12 May 1936

NAVY AERONAUTICAL SPECIFICATION
ELECTRICAL BONDING OF AIRPLANES

EXTRACT FROM ESPIONAGE ACT

"Section 31. Unlawfully obtaining or permitting to be obtained information affecting national defense, ***, or (d) whoever, lawfully or unlawfully having possession of, access to, control over, or being intrusted with any document,,writing, code book, signal book, sketch, photograph, photographic negative, blueprint, plan, map, model, instrument, appliance, or note relating to the national defense, willfully communicates or transmits or attempts to communicate or transmit the same to any person not entitled to receive it, or willfully retains the same and fails to deliver it on demand to the officer or employee of the United States entitled to receive it; or (e) whoever, being intrusted with or having lawful possession or control of any document, writing, code book, signal book, sketch, photograph, photographic negative, blueprint, plan, map, model, note, or information, relating to the national defense, through gross negligence permits the same to be removed from its proper place of custody or delivered to anyone in violation of his trust, or to be lost, stolen, abstracted, or destroyed, shall be punished by a fine of not more than $10,000, or by imprisonment for not more than two years or both."

A. APPLICATION

A-1. General.-This specification is drawn to present detailed instructions for the application and test of electrical bonding of airplanes. The following reasons are given to show the importance and necessity for good bonding:

1. To insure that all parts of the airplane shall be of equal electrical potential to prevent leakage or sparks creative of radio noises, and injurious to efficient radio communication.

2. To provide a transmitter and receiver ground (counterpoise) connection of maximum effectiveness by interconnecting as large a mess of metal as possible.

3. To lower the fire hazard due to possible sparking of unbonded joints when operating high power transmitters or when flying through thunderstorms.

A-2. Application to New Construction.-The requirements of this specification are mandatory with respect to airplanes being constructed under contracts executed after the date of this specification. De-

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viations from this specification will be permitted only if covered by the detail specification for the particular airplane, or if approved in writing by the Bureau of Aeronautics. It is the intent of this specification to emphasize the importance of providing for adequate bonding prior to assembling the airplane.

B. DEFINITIONS

B-1. Interpretation of this specification shall be governed by the following definitions:

B-1a. Bonding.-This term shall be applied to the interconnecting of metal parts and the main metal structure of the airplane by means of one or more good electrical conductors in a manner that will insure a "good electrical connection" that will not be damaged by wear and vibration incident to normal service use.

B-1b. Good Electrical Connection.-This term shall be applied to connections, the resistance of which does not exceed .0025 ohms, provided the nature of the connection is such that the resistance will not exceed .0025 ohms as a result of normal service operation.

B-1d. Bonding Connections.-Connections for the primary purpose of establishing "good electrical connection" between metal parts, other than electrical system parts, are designated hereinafter as bonding connections. In some instances these connections may also have a secondary use as attachments or supports.

B-1h. Bonding Jumper.-Shall be in accordance with figure 1.

C. GENERAL PRINCIPLES AND REQUIREMENTS.

C-1. Parts Requiring Bonding.-All metal parts of the airplane, with the exception of those listed under Parts Impracticable to Bond, which do not make "good electrical connection" with the main metal structure shall be bonded.

C-2. Parts Impracticable to Bond.-Parts which are movable to an unlimited extent, such as landing wheels, hand wheels, propellors, etc., and certain small metal parts whose largest dimension does not exceed 6 inches, such as wood screws, small cover plates in fabric, etc., need not be bonded, provided such parts are not within 2 feet of gas tanks, flares, transmitters, or transmitter antennae. Unless otherwise stated hereinafter in this specification, no other parts shall remain unbonded without the specific approval of the Bureau of Aeronautics.

C-2a. Insulation of Joints Impracticable to Bond.-If joints consisting of parts in rubbing or intermittent contact are impracticable to bond, the parts shall be insulated by the use of phenolic material or empire cloth tape. The use of protective coatings which are non-conductors, such as aluminum enamel, shall be avoided, when such coatings might "short" this insulation.

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C-3. Structural Parts.-The bonding of members to structural parts shall be accomplished without weakening any vital part of the airplane structure.

C-4. Characteristics of Bonding Connections.-Bonding shall be accomplished in such a manner that vibration, expansion or contraction, and relative movement incident to normal service use will not break the bond or loosen it to such an extent that the resistance across the joint exceeds .0025 ohms. Bonding connections shall be as short and as direct as it practicable. It is preferable to connect parts directly to the main airplane structure rather than to bond them through other bonded parts. Bonding jumpers or connections shall be inside fairing wherever practicable.

C-5. Dissimilar Metal Contacts.-Copper, brass, bronze, unplated steel and stainless steel in direct contact with aluminum or aluminum alloy always results in corrosion if moisture gets into the joints. Bare faying surfaces of such dissimilar metals held together under pressure by bolts or other mechanical fastenings usually admit moisture. This form of construction is particularly liable to corrosion. Soldering or metal spraying serves to prevent the entrance of moisture. Jointing by self-tapping screws, with finish left on faying surfaces, helps to exclude moisture from the actual metal-to-metal contact areas.

Table I shall constitute a guide for the arrangement of dissimilar metals in bonding joints.

TABLE I

ARRANGEMENT OF DISSIMILAR METALS WHEN THE BONDING CONNECTION INCLUDES BARE FAYING SURFACES

Material of Secondary, Replaceable, or Bonding Part	Material of Primary Structure or Permanent Portion to which Attached or Bonded	Method of Assembling Contacts
Phosphor Bronze or Copper	Aluminum Alloy	Separate as follows: (a) Bonding Part (b) Cadmium Plated Steel shim or Washer (c) Oversize Aluminum shim, foil or washer (d) Aluminum Alloy main part
Phosphor Bronze or Copper	Steel	Separate by an oversize aluminum shim, washer or foil
Phosphor Bronze or Copper	Stainless Steel	No separation necessary (Do not assemble by solder to stressed part of stainless steel, use

Table I (cont.)

		mechanical means of attachment).
Aluminum Covered Aluminum Alloy	Steel	Separate by an oversize aluminum shim, washer or foil.
Steel	Aluminum Alloy	Separate by an oversize aluminum shim, washer or foil.

C-6. Acceptable Bonding Methods.

C-6a. On Non-Structural Parts.-One of the following methods, listed in order of their desirability, shall be used:

1. Soldering
2. Bolting
3. Self-tapping screw and lock washer
4. Clamping.

C-7. Unacceptable Bonding Methods.

C-7a. Drive screws.-Shall not be used for bonding.

C-7b. Non-Standard Clamps.

C-7b(1). Clamps making contact by penetrating barbs or ears piercing the member and cutting into the finish thereof, shall not be used for bonding.

C-7b(2). Connections in the form of metal tape or strip wrapped about the tube and drawn tight by twisting or by patented locking devices or similar means do not afford positive clamping action and shall not be used for bonding.

C-7b(3). Clenched "C" clamps on cables, rods or tubing shall not be used for bonding.

D-4. Riveted or Bolted Parts with Protective Coating in Joints.- All riveted or bolted seams using insulating protective coatings in joints or employing sealing compounds between metal parts shall be bonded to the airplane structure on each individual piece of sheet material composing the part.- Surfaces which are sufficiently attached by the action of [illegible] [illegible], [illegible] using self-tapping screws, to effect a "good electrical connection" at the joints require no additional interconnection, but the assemblies shall be bonded in accordance with the applicable requirements specified herein.

D-5. Hinges.-Bonding connections shall be made across all hinges. Hinge pins or bolts shall not be used as connections for bonding jumpers since they may not be tight enough to provide a "good electrical connection" during normal service operation.

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D-6. Ball and Roller bearing Joints.-Are not of the integrally bonded type and parts connected by them should be joined by a bonding connection wherever practicable.

E-2. Tail Group.

E-2a. Fins.-Resistance tests shall be made across the attaching fittings or all removable, detachable or adjustable fins. If the fin does not make a "good electrical connection" with the fuselage an adequate bond shall be applied across each fitting.

E-2b. Stabilizers.-Resistance tests shall be made across the attaching fittings of all stabilizers. If the stabilizer does not make a "good electrical connection" with the fuselage an adequate bond shall be applied across each hinge.

E-3. Control Surfaces.

E-3a. Ailerons, Elevators, Rudders, Wing Slots and Flaps.-Shall be bonded to the main airplane structure by a bonding jumper across each hinge. A surface having a continuous hinge greater than 36 inches in length shall be bonded at no less than 2 places.

E-3b. Trimming Tabs or Adjustment Surfaces.-Shall be bonded to the main surface or structure through at least one bonding jumper.

E-3c. Disassembly.-To facilitate disassembly, the jumper used in bonding the control surfaces shall be fastened in accordance with the method indicated in Figure 20. Whenever possible, this connection shall be placed near a handhole, inspection door, or some other accessible location.

E-4. Body Group.

E-4a. Fuselage Structures.-Welded steel tube, riveted aluminum alloy, monocoque and semi-monocoque fuselage structures do not require bonding due to the inherent metal-to-metal contact of this type construction with its correspondingly low joint resistance. Resistance tests shall be made across all removable, adjustable or detachable structural joints. If these joints do not make "good electrical connection", adequate bonds shall be installed.

E-4b. Flying Boat Hulls.-Are to be considered inherently bonded due to the metal-to-metal contact of riveted or welded joints. Resist- [illegible] all removable, adjustable or detachable structural joints. If these joints do not make "good electrical connection", adequate bonds shall be installed.

E-4c. Radio Terminal Tabs.-A bonding tab of the specified [illegible] material shall be welded on, or made integral with the fuselage structure at a point near the "ground" terminal of the radio receiving apparatus. A similar tab shall be furnished adjacent to the "ground" terminal of the radio transmitting apparatus. In the case of monocoque or semi-monocoque fuselages, the tabs shall be an integral part of the bulkhead or frame near the radio equipment.

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E-4f. Doors.-All doors shall be bonded. One connection is sufficient for small access doors; large doors such as watertight bulkhead doors in flying boats shall be bonded at not less than two points (see Figure 22). The bonding jumper for removable doors shall be fastened to the door in accordance with Figures 3, 4, or 23, to facilitate disassembly. Bonding jumpers for emergency exit doors or panels shall be in accordance with Figure 23 and shall not interfere with the operation of the exits.

E-5a. Main Landing Gear.-All parts of the landing gear, except the wheels, shall be bonded. Bonds shall connect the top of each shock absorbing strut with the main airplane structure and the bottom of each shock absorbing strut with the landing gear structure. All landing gear struts shall be bonded to the main airplane structure. Joints between sliding portions of the shock absorbing strut need not be bonded.

E-5c. Metal Main and Wing Tip Floats.-Due to the metal-to-metal contact of the riveted or welded types of construction, no bonding is required in the main structure of the float. However, the float shall be bonded to the main airplane structure through the supporting struts. The top of all float struts shall be bonded to the main airplane structure and the bottom of the struts shall be bonded to the float through the attaching fittings. All float strut attaching fittings shall have suitable ears or tabs to which the bonding jumpers may be attached, or the jumpers may be attached to the fittings provided the strength requirements of the fittings are not affected.

E-6. Engine Section or Nacelle Group.

E-6a. Engine Mounts.-Are considered to be bonded through their attaching bolts. Engines separated from their mounts by anti-vibration or shock absorbing blocks shall be bonded across each block to the engine mount with a bonding jumper. Shock mounted engine mounts shall be bonded to the fuselage by bonding jumpers across each shock block.

E-6b. Engine Ring Cowl and Cowl Flaps.-Each individual segment, section, flap or support not rigidly assembled in "good electrical connection" shall be bonded.

E-6c(2). Multi-Engine Aircraft.-The firewall and all structure forward of it shall be bonded to the main airplane structure.

E-6[illegible]. Parts Passing Through the Firewall.-All parts passing through the firewall, including pipes, conduit, rods, cable, etc., shall be bonded to accessible places on the firewall, on the forward side, to permit easy access for inspection and replacement (see Figure 15).

E-7. Fuel and Oil Systems.

E-7a. Tanks.-All tanks, except those integral with the main structure, shall be bonded to the main structure by at least two connections, spaced as far apart as practicable (see Figure 21).

E-7c. Piping - All piping shall be bonded to the airplane structure at each end,. across piping intersections, and at intervals to match the aircraft structure but not to exceed 24 inches over the entire length. Contact with the piping shall be made by clamps similar to Figures 8 and 10. At joints made of non-conducting material, the two ends of the piping shall be joined by a bonding jumper conforming to Figure 11. Joints made with solid or flexible metal connections of brass or copper shall be considered bonded and require no jumpers. Piping which is installed parallel to and close to long rigid metal members, shall be held firm and rigid between bonding connections by mechanical means, such as clamping, to prevent rubbing or intermittent contact.

E-7d. Oil Coolers - shall be bonded to the structure at one point. No jumper shall be soldered to the oil cooler in the vicinity of any soldered seam.

E-8a(1) Metallic Case - Instruments in metallic cases shall be considered bonded to the instrument board through the mounting screws.

E-8a (2) Non-Metallic Cases - Instruments in non-metallic cases shall not be bonded.

E-8a(3) Metallic Instrument Lines - Shall be bonded to the structure in a manner similar to that specified for Fuel and Oil Piping.

E-8b. Instrument Boards.

E-8b(1) Shock Mounted Instrument Boards - Shall be bonded to the main airplane structure at two points, spaced as far apart as practicable. Instrument boards in multi-engine aircraft shall be bonded at no less than three points.

E-8b(2) Rigidly attached Instrument Boards - May be bonded to the airplane structure through the attachment fastenings.

E-9 Surface Controls.

E-9a Control Sticks - The lower end of control sticks shall be bonded to the main structure.

E-9b Rudder Pedals - Shall be bonded to the main structure and to the connection between the pedals in the forward and aft cockpit.

E-9c(1) Stationary - Members 18 inches in length, or less, shall be bonded at one point nearest to the main structure. Members longer than [illegible] mid-point and at one end. Members 36 inches in length and longer shall be bonded at each end and at intervals to match the aircraft structure but not to exceed 24 inches over the entire length. Bonding shall be accomplished without removal of protective finish from the main structure.

E-9c(2) Movable - Members 18 inches in length or less, shall be bonded at one end only. Members exceeding 18 inches in length shall be bonded at each end. Tabs or ears welded to the end or clamps may be used as bonding connections (See Figures 15, 18 and 20).

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E-9d. Bell Cranks - Shall be bonded to the main structure (See Figure 18).

E-9f. Control Chains - Shall be insulated from metallic parts, except as specified hereinafter, to prevent rubbing or intermittent contact. The chain need not be insulated at the connection to push rods or cables or where it passes over sprockets or hand wheels.

E-10a. Pilot's Seat - Shall be bonded at one point.

E-10b. Observer's and Gunner's Seat - Need not be bonded if the adjustment range of the seat exceeds 6 inches.

E-11. Electrical Equipment.

E-11a. Conduit (Flexible or Solid) - Each end of all electrical conduit shall be bonded to the airplane structure. Conduit shall be bonded at intersections and at intervals to match the airplane structure but not to exceed 24 inches throughout its length. Contact with the conduit shall be made through clamps similar to Figures 8, 9 and 10. Bonding shall be accomplished without the removal of the protective finish from the structure. Conduit installed parallel to and close to long rigid members shall be made fast between the bonding connections to prevent rubbing or intermittent contact.

E-11b. Ignition System - All conduit and metallic items comprising the ignition system shall be subject to the bonding requirements applicable elsewhere in the airplane, except as modified or supplemented by the requirements of the shielding installation. In general, ignition systems require more extensive bonding than other parts of the airplane.

E-11c. Miscellaneous Items - Generator control boxes, filter boxes, junction boxes, shielded batteries and battery cases which are metallic shall be bonded.

E-13a. Flare Release Torque Tubes and Levers - Torque tubes shall be bonded at each end to the main structure. Guide levers shall be bonded to torque tubes.

F. BONDING PROCEDURE

F-1 Materials - The following typical materials and items shall be used for the purposes indicated:

TABLE II

Item - Material	Conforming to Navy Department Specifications — Title	No.	Purpose
Flux, Rosin			All Soldering
Wire Solder	Solder, Tin-Lead (Grade A)	46S14	All Soldering

Table II (cont.)

Item and Material	Conforming to Navy Department Specifications		Purpose
	Title	No.	
Bonding Tabs Steel, Cadmium Plated	"Steel, Carbon, Mild, quarter Hard, Sheet or Strip (Aircraft Use)"	47S17 *	To be welded or soldered to primary and secondary structures for external bonding
Bonding Tabs and Strips, Aluminum	"Aluminum Alloy; (Aluminum Magnesium-Copper) Plate & Sheet (Type I)" or "Aluminum; Plate and Sheet (Type I)"	47A11 or 47A2	Bonding to aluminum alloy structure prior to heat treatment and/or metallizing
Aluminum Foil	"Aluminum Foil"	47A5	To separate aluminum from steel or other dissimilar metals at bonding points only. This is in addition to the requirements of SR-15

TABLE III

Item and Material	Conforming to Navy Department Specifications		Purpose
	Title	No.	
Self Tapping Screws	"Screws, Steel, Self Tapping (Type E)"	S-92	Bonding connection to steel and aluminum alloy lugs or ears; to non-structural metal parts and to structural parts without lugs or ears where approved.
	"Instructions for Use of Self-Tapping Screws"	PI-5	

*Superseded by AN-QQ-S-651

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TABLE IV

Item And Material	Conforming to Navy Department Specifications		Purpose
	Title	No.	
Flat Copper Wire (Ribbon)	"Wire, Copper, Flat"	[1] 310573 or equiv	Metallizing
Tinned Stranded Copper Pig Tail Cable	"Cable, Extra-Flexible Stranded Pig Tail, Bonding"	[2] 29535-4 or -5 or equiv	Bonding conductor or jumper
Stranded Aluminum Pig Tail Cable	"Cable, Extra Flexible Stranded, Aluminum	- - -	Bonding conductor or jumper for use with aluminum terminals
Forged or Machined Aluminum Terminal	Terminal, Bonding Aluminum	- - -	Use with stranded aluminum cable
Lug Terminals	"Terminals, Electric Cable"	[3] 213003-1 or -2 or equiv	Stranded (pig tail) jumper terminals
Internal Toothed Terminal	"Terminals, Radio Lock"	[4] 213172 -3 or equiv.	Stranded (pig tail) jumper terminals
Clamps - Aluminum Alloy (Aluminum Coated)	"Clip, Bonding"	[5] 214010 or [6] 214011 or equiv.	Bonding non-structural aluminum alloy tubing or conduit
Clamps - Phosphor Bronze			Bonding copper tubing
Elastic Stop Nut	"Nut, Stop, Elastic, Aluminum Alloy".	[7] 213052 or dquiv.	Bolting connections, securing clamps, etc.
Screw	"Screw, Steel, Self-Tapping	[8] 310516	Securing Terminals, Clamps etc.
Flat Washer	"Washer, Plain, Steel"	AN960	For use with self-tapping screws
Concave Washer	"Washer for Cylindrical Connections"	[illegible]923 or equiv.	
Lock Washer	"Washer, Radio, Lock"	[9] 213051, 213170 or equiv	

Table IV (cont.)

Item And Material	Navy Department Specifications		Purpose
	Title	No.	
Steel Nails Cement Coated	"Nail - Flat Head"	AN-301 -18 -4	Attaching aluminum strip to wood structure
Brass Nails		AN-301 -B18-4	Attaching copper ribbon to wood structure
Nut	"Nut, Machine Screw, Aluminum Alloy"	AN-340 or AN345	Bolting connections, securing clamps, etc.
Machine Screw	"Screw, Machine, Aluminum Alloy, Brsss"	AN-515 or AN520	
Lock Washer	"Lock Washer, Steel"	AN-935	

[1] 310573 Superseded by NAF1041, 1042, and 1043
[2] 29535-4 Superseded by NAF1042 (2625 Cir Mils)
-5 Superseded by NAF1042 (4200 Cir Mils)
[3] 213003-1 Superseded by NAF47254-167
213003-2 Superseded by NAF47254-168
[4] 213172-3 Superseded by NAF47254-189
[5] 214010 Superseded by NAF1051
[6] 214011 Superseded by NAF1051
[7] 213052 Superseded by NAF1137
[8] 310516 Superseded by NAF1029
[9] 213051)
213170) Superseded by AN936

F-2. Preparation of Surfaces.-At bonding connections, where metal-to-metal contact must be assured, paint and anodic film shall be removed. No greater area shall be bared than is essential for contact, to minimize the reduction of resistance to corrosion. Where self-tapping screws are used the surface treatment shall not be removed. The protective finish shall never be removed from any vital structural part of the airplane for bonding purposes.

F-2a. Carbon tetrachloride or alcohol shall be used for cleaning.

F-3. Soldering.-Soldering shall be used for the following connections:

1. Terminals to stranded (pig tail) [illegible]
2. Stranded (pig tail) cable to steel, brass or copper parts.
3. Interconnecting stranded (pig tail) [illegible]

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F-3a. The parts to be soldered shall be thoroughly cleaned and
tinned to insure adhesion.

F-3b. As soon as the soldering is finished, the parts shall be
cleaned with a rag saturated with carbon tetrachloride or alcohol.

F-3c. All soldered joints except stranded (pig tail) cable to
lug terminal joints, shall be given one coat of clear varnish as soon as
the specified cleaning is completed. This precaution is necessary to pre-
vent corrosion from weakening the joint. The varnish protects the parts
until inspection, after which the routine finish is applied.

F-4. Bolting.-The connection shown in Figures 4 and 5 shall be used
for connecting bonding jumper terminals, making removable bonding connections,
or where soldering is impracticable.

F-5. Self-Tapping Screws.-Self-tapping screws may be used in con-
necting bonding jumpers to nonstructural parts if more desirable than bolting
or soldering, to integral tabs or ears on structural parts, or direct to
structural parts in special cases. The protective coating, finish, and
anodic film shall not be removed from any surface or surfaces when this
method is employed. No special surface preparation is necessary previous to
making a bonding connection with self-tapping screws. Self-tapping screws
shall conform to the requirements of N.A.F. Drawing 310516 and Navy Aero-
nautical Specification S-92, Type E, size #4-40 or #6-32. (See Figures 6
and 2).

F-5a. Method of Use.-The coated and finished tube, tab, or part,
shall be drilled as specified and a self-tapping screw shall be inserted,
through a toothed lock washer, terminal and concave or flat washer (when
necessary), into the drilled hole and drawn down tightly, as indicated in
Figures 2 and 6.

F-5b. Drill Size.-The drill sizes shall be as specified in Navy
Aeronautical Specification PI-5.

F-5c. Sealing.-In order to properly seal the joint and to increase
its resistance to corrosion, the self-tapping screw shall be dipped in a
primer previous to application. There shall be no leakage of oil from the
interior of tubes due to bonding.

F-5d. Limitations.-No self-tapping screws shall be used in portions
of structural members except in regions of lowest fibre stress. No self-
tapping screws shall be used in fuel or oil lines or in electrical conduit.

F-6. Clamping.-Clamps shall be used on nonstructural members, where
soldering, bolting, or self-tapping screws is impracticable, such as fuel and
oil lines and electrical conduit. Clamps shall be similar to Figures 8, 9
and 10. Paint and anodic finish shall be removed from all contacting sur-
faces before installing clamps.

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F-7. Finish for Bonding Connections.-Protective finish shall be applied as soon as practicable after the connection is completed. Therefore, bonding connections shall be tested as soon as possible after completion.

F-7a. Just prior to the application of the finish, the connection shall be given a final cleaning with a rag saturated with carbon tetrachloride or alcohol.

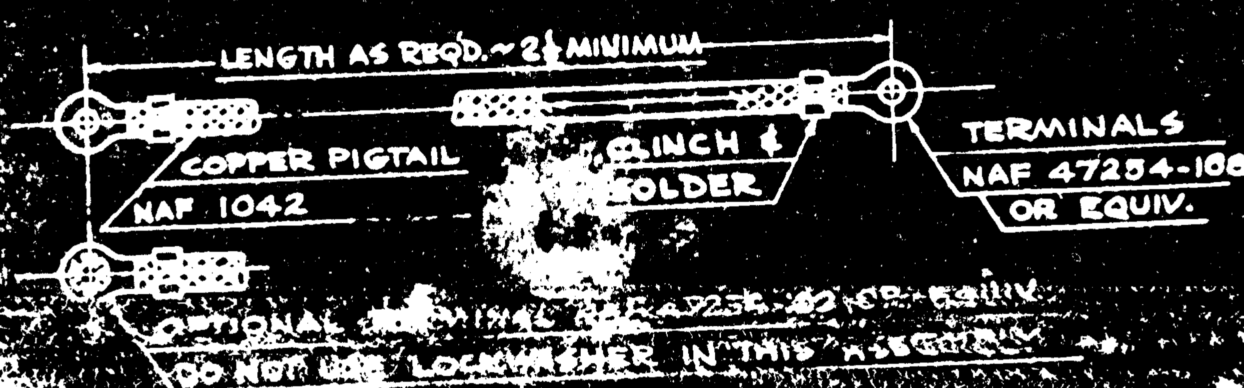
F-7b. Clamped and soldered connections shall be finished with one coat of zinc chromate primer followed by a routine finish, in accordance with the applicable finish specifications.

ALUMINUM TYPE BONDING JUMPER

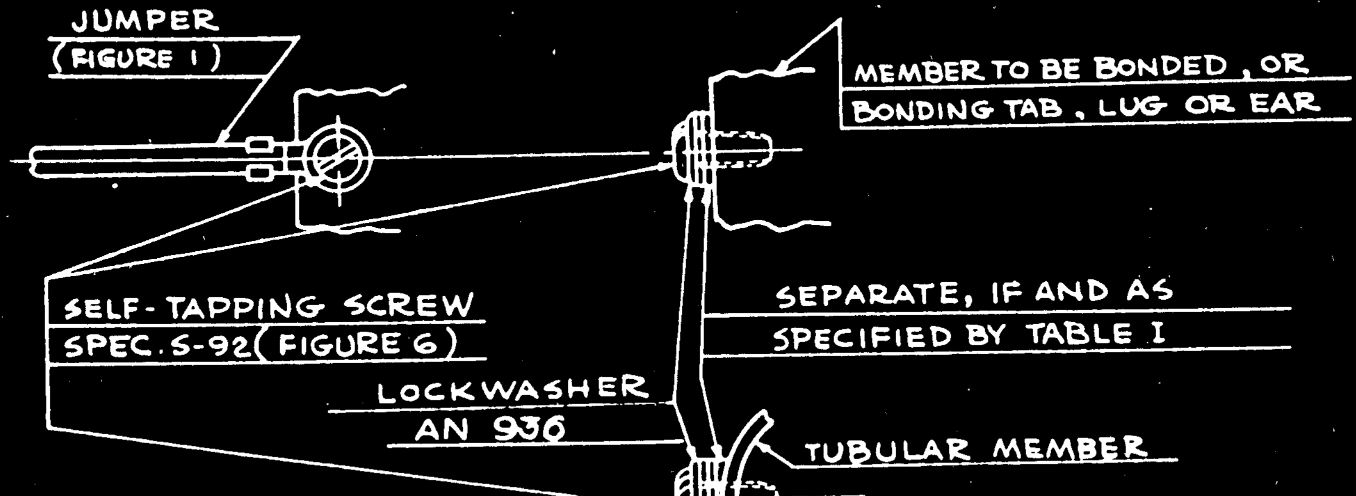
NOTES:—

1. TERMINALS SHALL BE SO DESIGNED THAT THE STRANDED ALUMINUM PIGTAIL MAY BE SWAGED OR CRIMPED INTO THE TERMINAL BY THE USE OF MECHANICAL SWAGING OR CRIMPING TOOLS.
2. TERMINALS SHALL BE FORGED OR MACHINED FROM ALUMINUM.
3. ALUMINUM PIGTAIL (STRANDED WIRE) SHALL HAVE AN AREA OF 5750 OR 4320 CIR. MILS. THIS AREA IS BASED ON THE DIAMETER OF NAF 1042 (CU. CABLE 4200 & 2625 CIR. MILLS) AND ON THE RELATIVE CONDUCTIVITY OF ALUMINUM AND COPPER.

PIGTAIL TYPE BONDING JUMPER



TYPES OF BONDING JUMPERS	PART NUMBER
CONSOLIDATED AIRCRAFT CORPORATION SAN DIEGO, CALIF.	FIG. 1

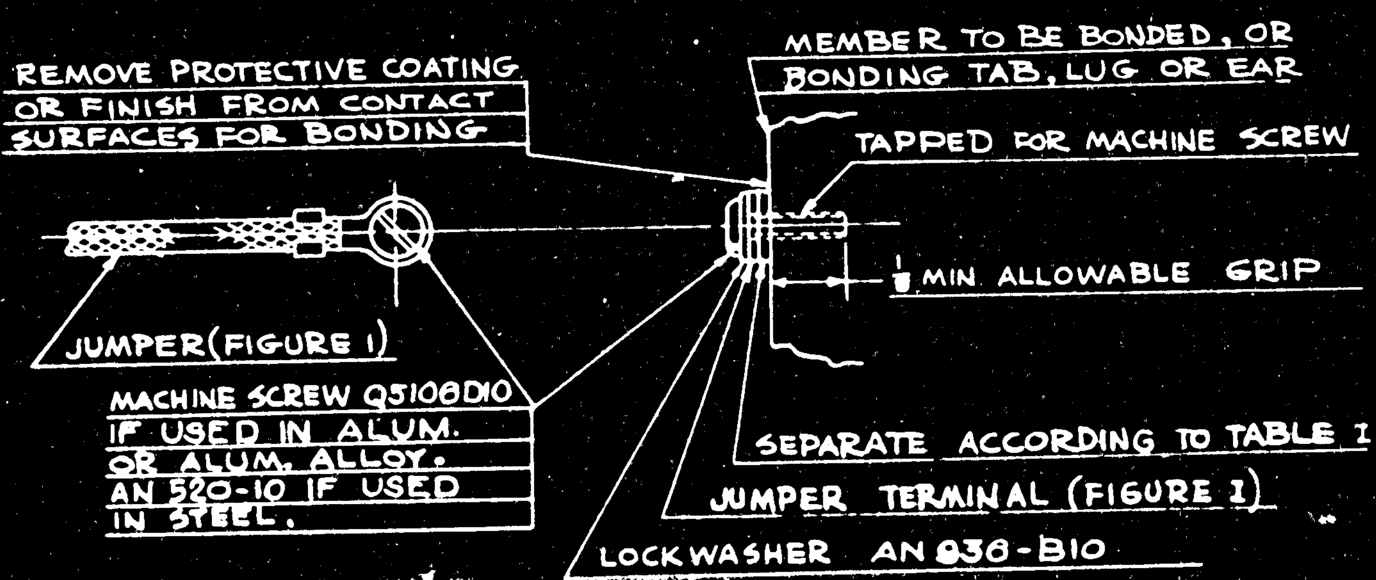


NOTES:

PROTECTIVE COATINGS OR FINISHES NEED NOT BE REMOVED FROM CONTACTING SURFACES.
DO NOT USE IF DISASSEMBLY WILL BE NECESSARY.

TYPICAL ATTACHMENT OF JUMPER BY SELF-TAPPING SCREW

FIGURE 2

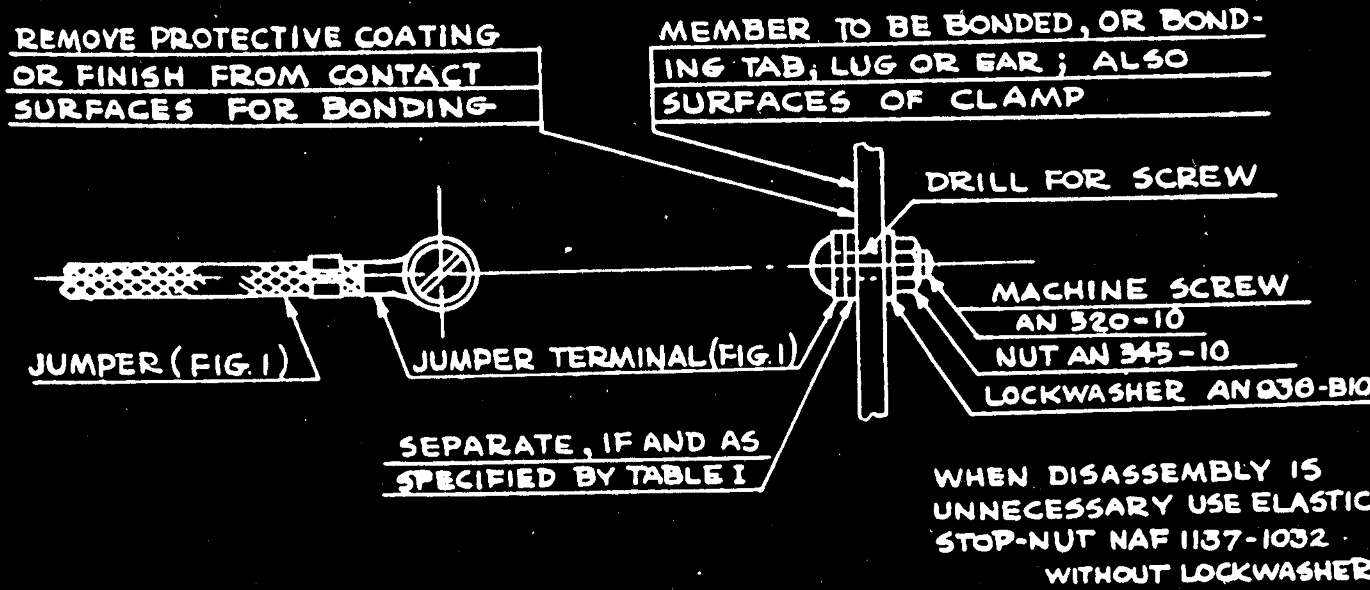


TYPICAL ATTACHMENT OF JUMPER BY MACHINE SCREW

TAPPED HOLE

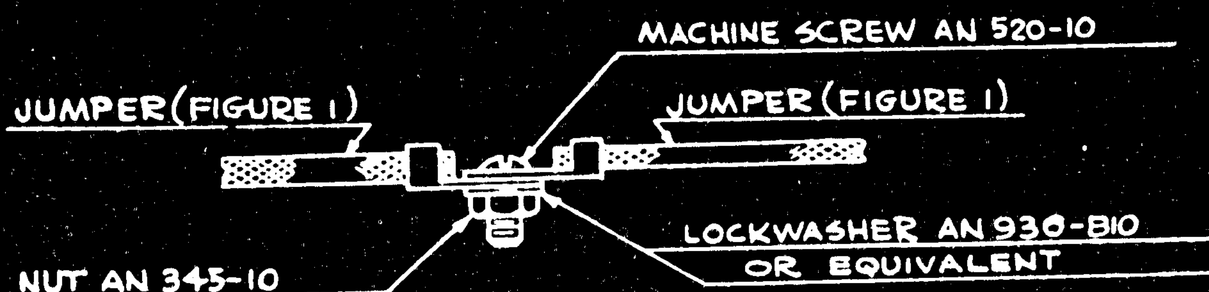
FIGURE 3

DRAWN	D. THORSEN	JUMPER ATTACHMENTS	PART NUMBER
APPROVED			FIGS. 2 & 3
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD SAN DIEGO, CALIF.	



TYPICAL ATTACHMENT OF JUMPER BY MACHINE SCREW & NUT

FIGURE 4



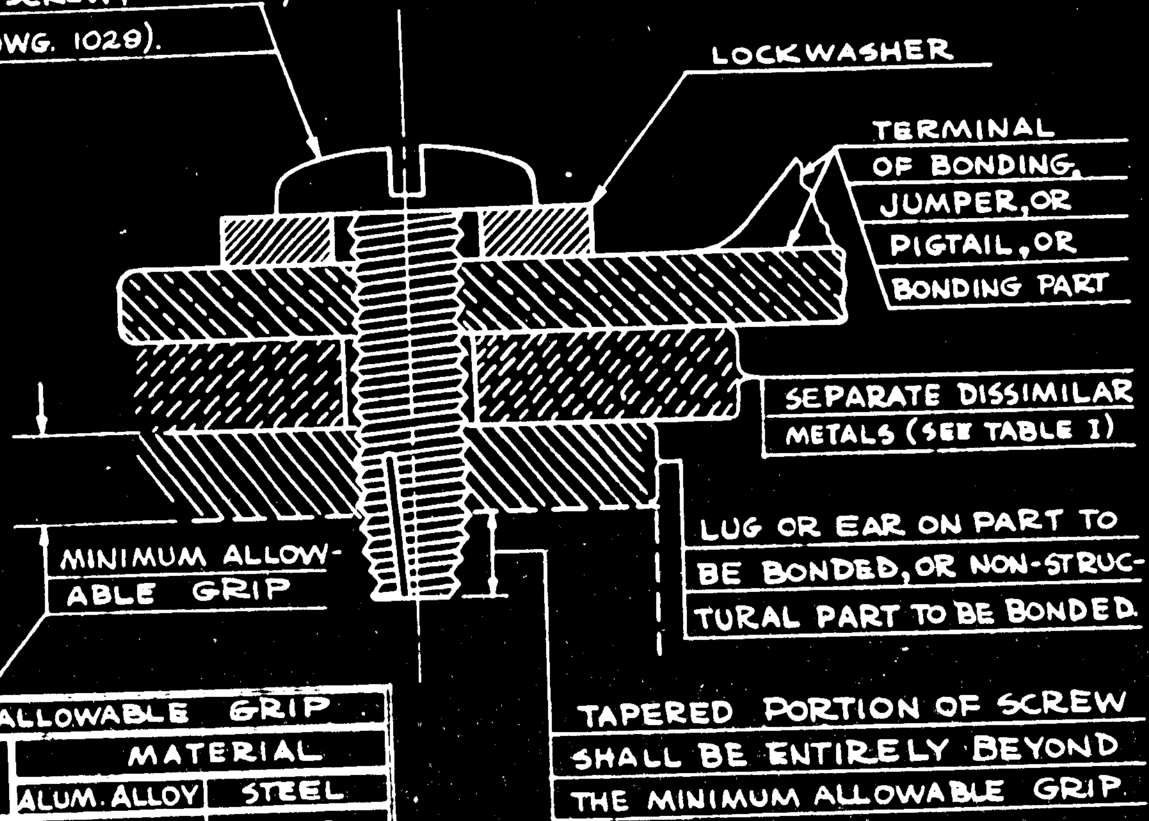
TYPICAL CONNECTION OF BONDING JUMPERS TO PERMIT DISASSEMBLY

FIGURE 5

DRAWN	D. THORSEN	JUMPER CONNECTIONS	PART NUMBER
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	FIGS. 4 & 5
APPROVED			

REVISED

ISSUED



MINIMUM ALLOWABLE GRIP		
SCREW SIZE	MATERIAL	
	ALUM. ALLOY	STEEL
#4-40	.032	.025
#6-32	.032	.025

SELF-TAPPING SCREW BONDING CONNECTION

CAUTION: DO NOT USE IF DISASSEMBLY WILL BE NECESSARY.

DRAWN	D. THORP		BONDING CONNECTION	PART NUMBER
APPROVED			CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD SAN DIEGO, CALIF	FIG. 6
APPROVED				

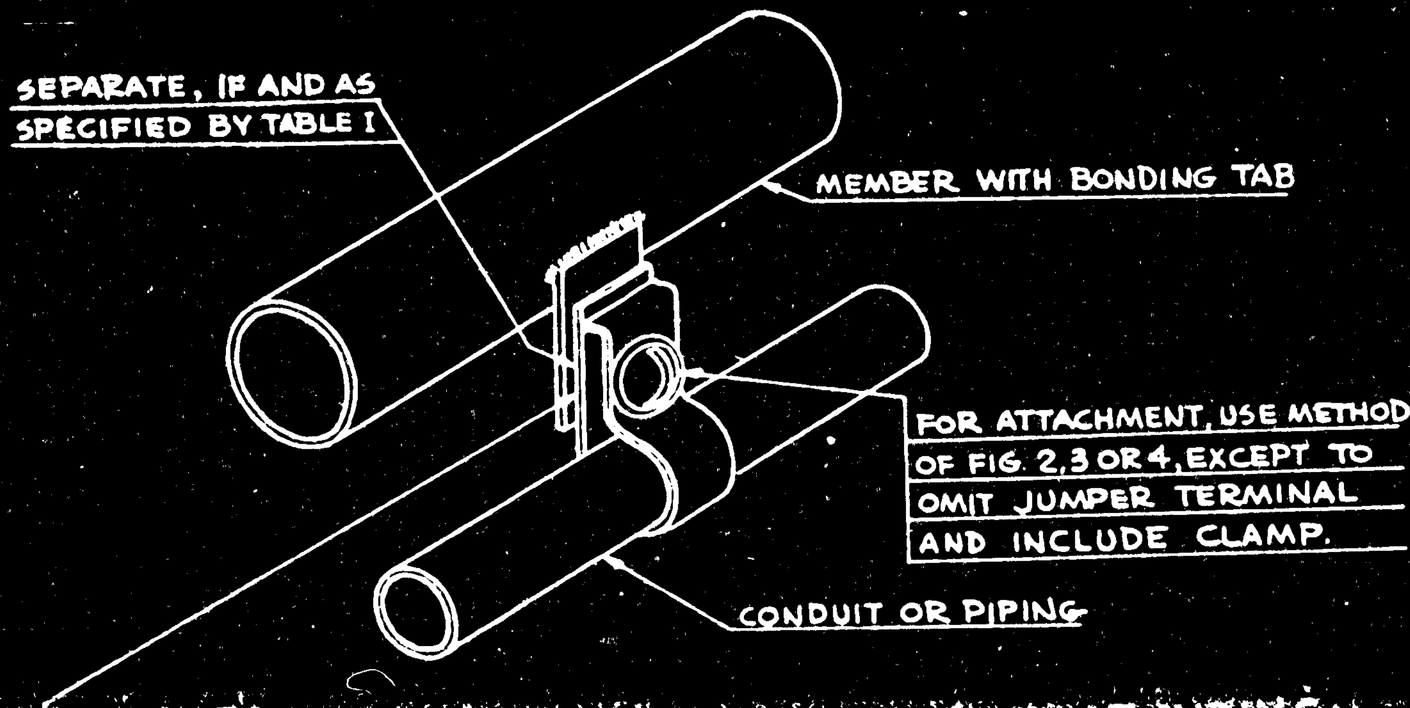
REVISED

ISSUED



TYPICAL ATTACHM'T. OF JUMPER TO ST'L. MEMBER WITH BOND. TAB

FIGURE 7

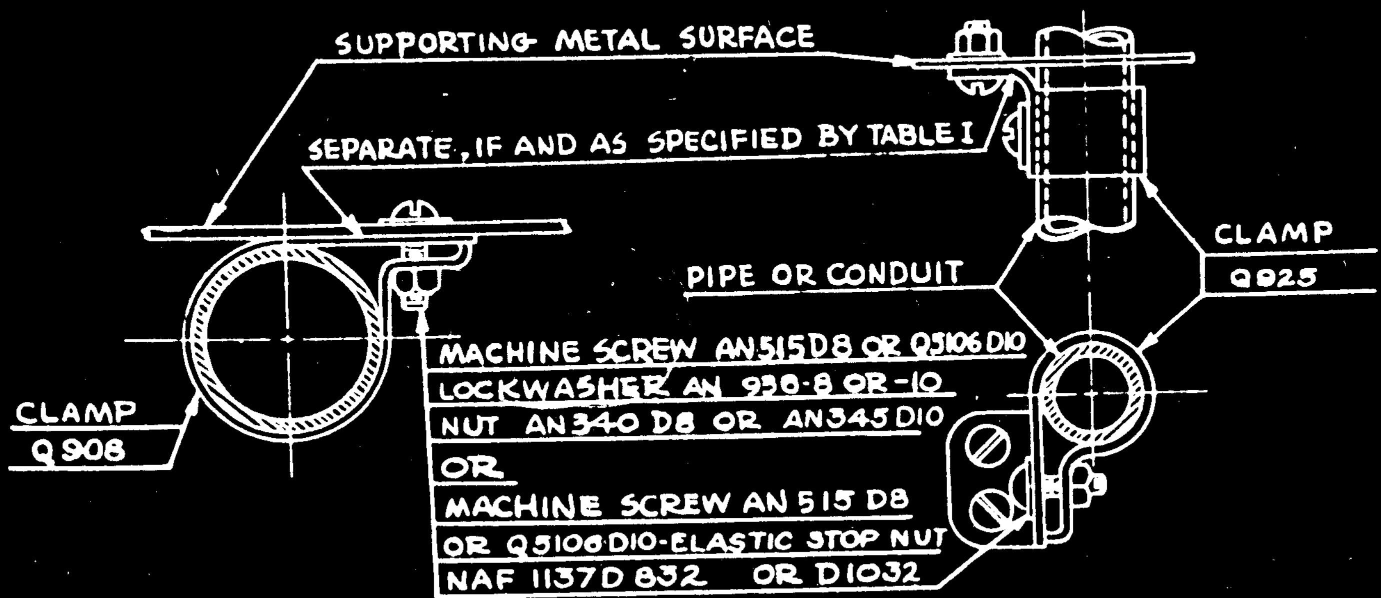


REMOVE PROTECTIVE COATINGS OR FINISHES FROM CONTACT SURFACES, UNLESS THE METHOD OF FIG 2 IS USED

TYPICAL BONDING BETWEEN CONDUIT OR PIPING & ADJACENT STEEL STRUCTURE

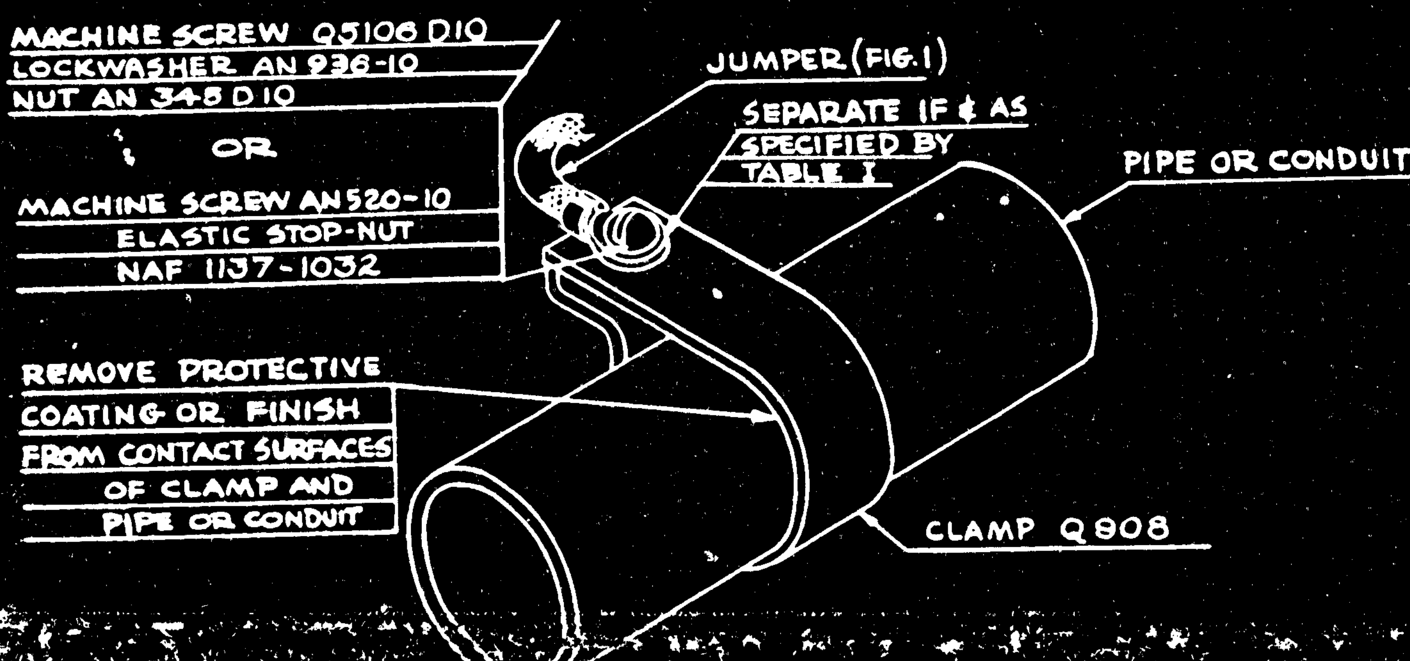
FIGURE 8

DRAWN		BONDINGS TO STEEL MEMBERS	PART NUMBER
APPROVED			FIGS. 7 & 8
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	



TYPICAL CLAMP INSTALLATIONS AT OR ADJACENT TO METAL BULKHEADS OR SURFACES

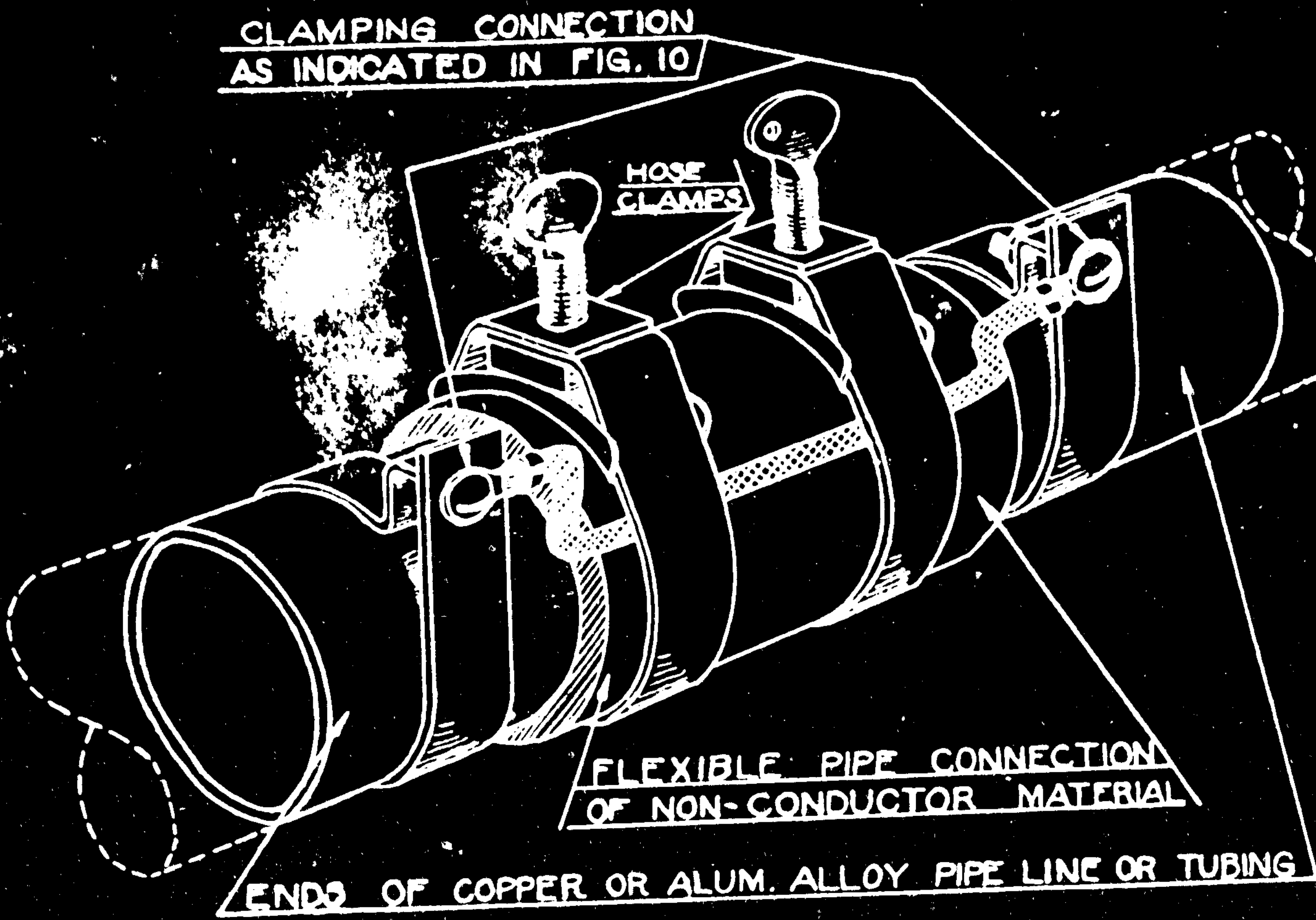
FIGURE 9



TYPICAL JUMPER TO PIPE OR CONDUIT CONNECTION

FIGURE 10

DRAWN		CLAMP INSTALLATIONS	PART NUMBER
APPROVED			FIGS. 9 & 10
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD SAN DIEGO, CALIF.	

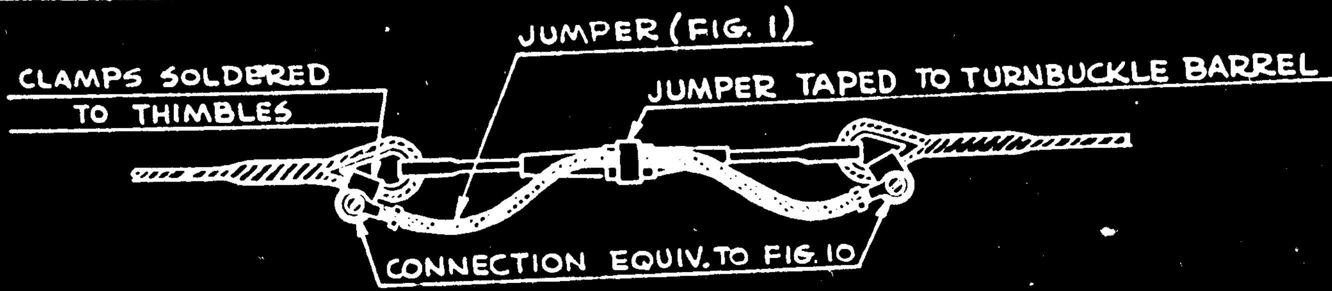


TYPICAL BOND ACROSS FLEXIBLE CONNECTION OF NON-CONDUCTOR MATERIAL

FIGURE 11

TO SCALE

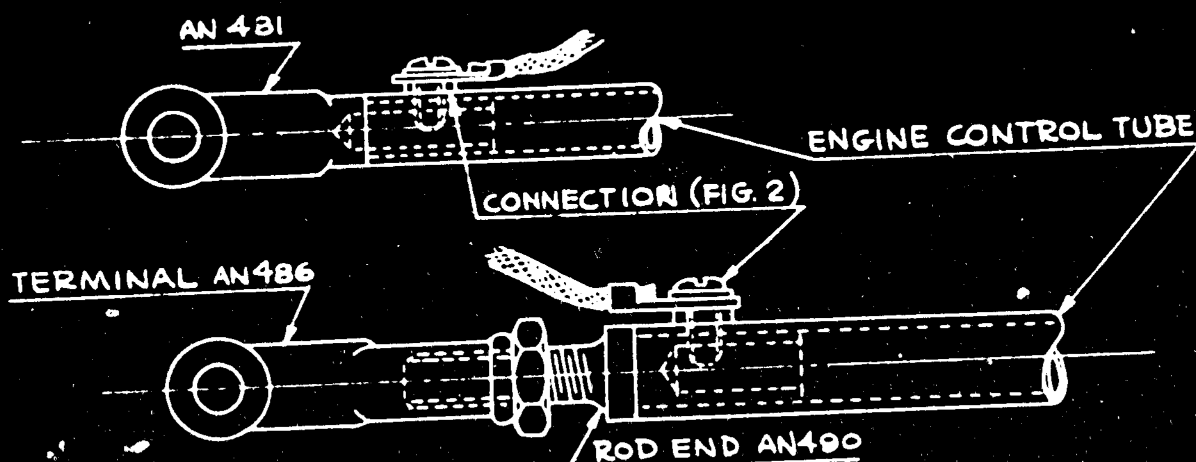
DRAWN	Gable		BOND FOR NON-CONDUCTOR CPLG.	FIG. 11
APPROVED	[illegible]	1-15-3[illegible]		
APPROVED			CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	



TYPICAL BOND ACROSS TURNBUCKLE (WITH SPLICED CABLE ENDS)

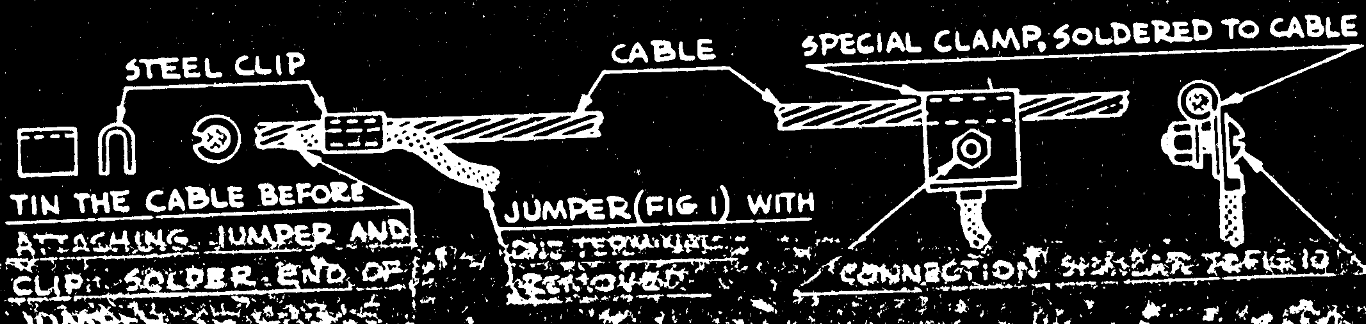
NOTE: CABLES WHICH ARE SWAGED INTO TURNBUCKLE ENDS DO NOT REQUIRE THIS BOND.

FIGURE 12



TYPICAL BONDING CONNECTIONS TO ENGINE CONTROL RODS

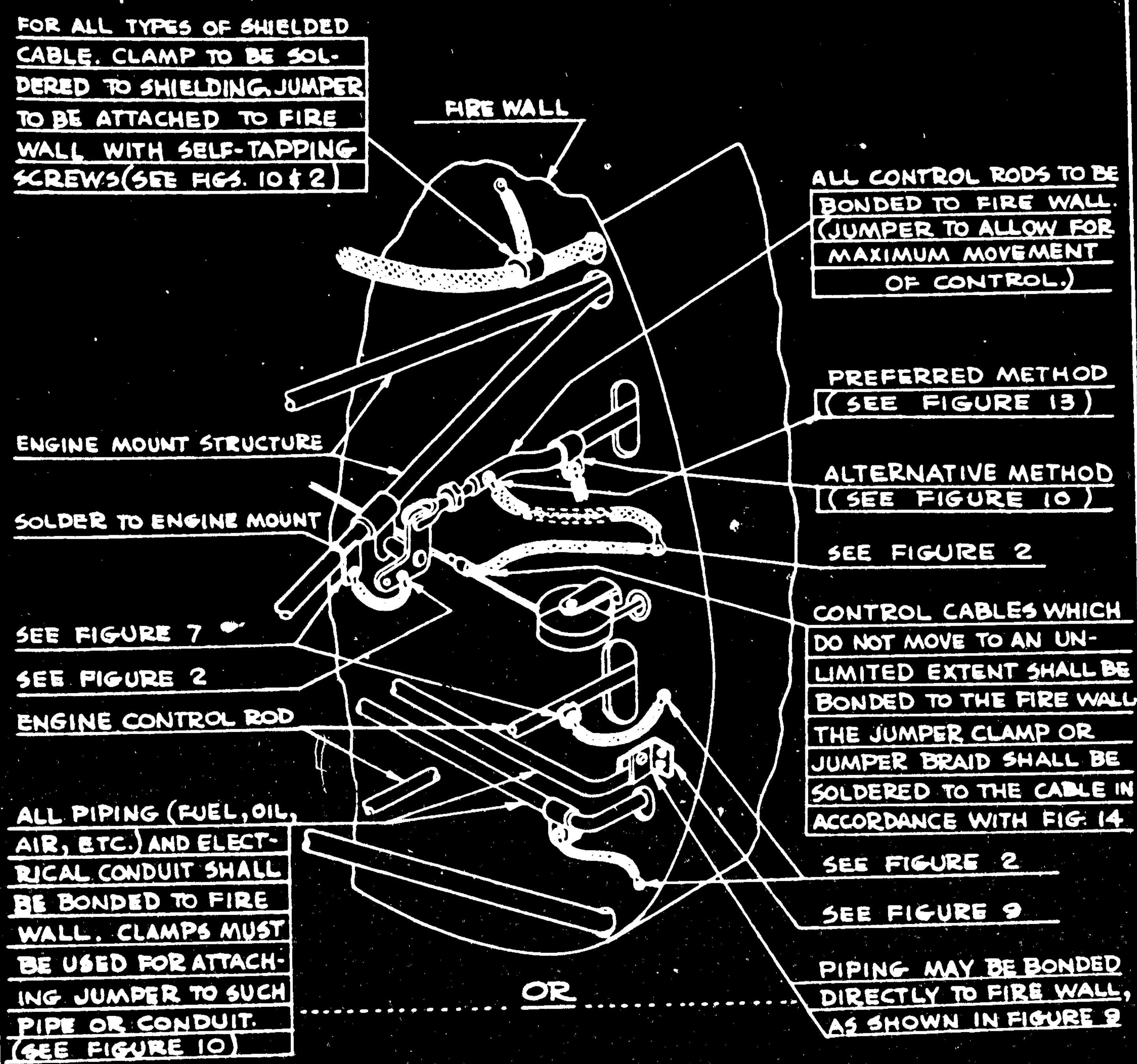
FIGURE 13



TYPICAL BONDING CONNECTIONS TO CABLE

FIGURE 14

DRAWN	D. THORSEN	CABLE & ROD BONDING	PART NUMBER
APPROVED			FIG. 12, 13 & 14
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD SAN DIEGO, CALIF.	



TYPICAL BONDING OF PARTS PASSING THROUGH FIRE WALL

DIAGRAMMATIC

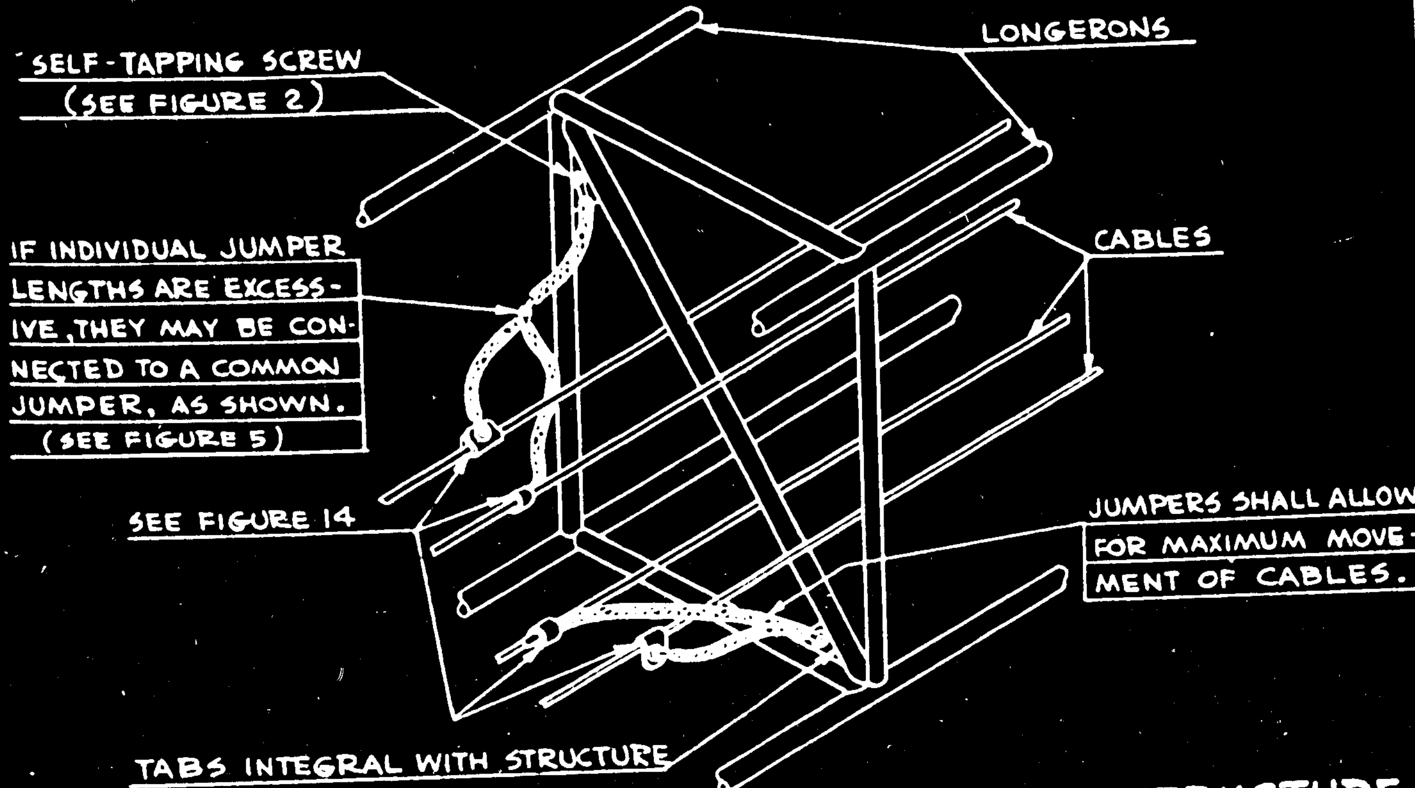
FIGURE 15

DRAWN	D THORSEN	BONDINGS TO FIRE WALL	PART NUMBER
APPROVED			FIG. 15
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	

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ISSUED

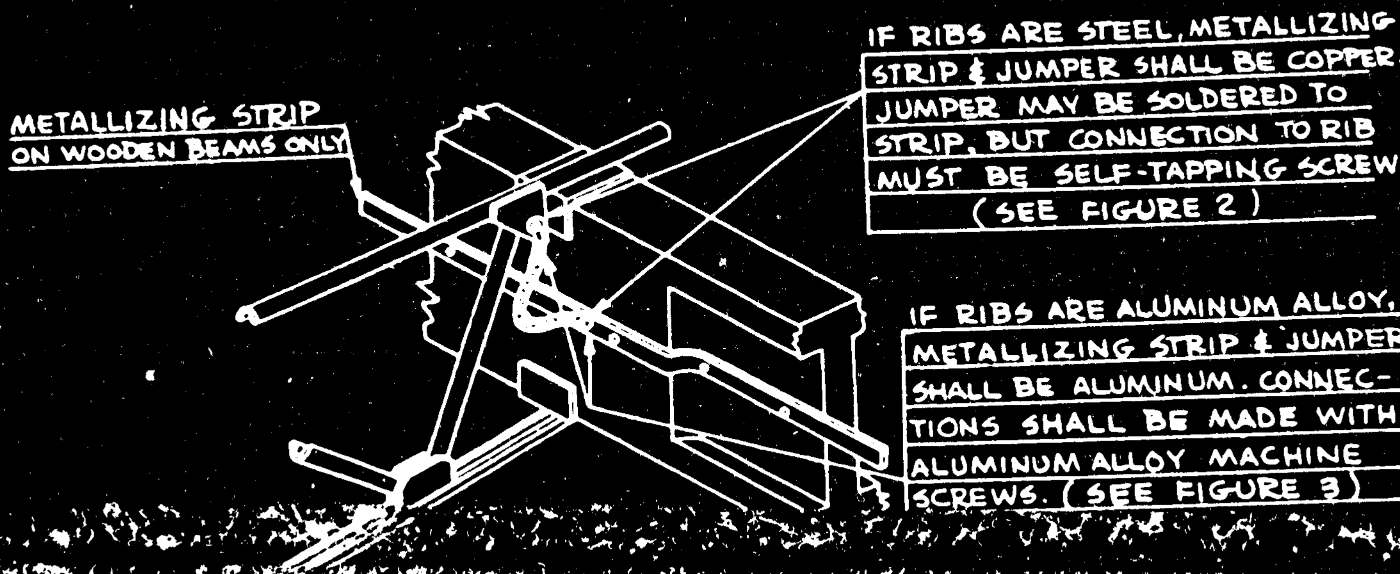
FORM 142



TYPICAL METHOD OF BONDING CABLES TO STRUCTURE

DIAGRAMMATIC

FIGURE 16



TYPICAL BONDING OF METAL RIBS ON BEAMS

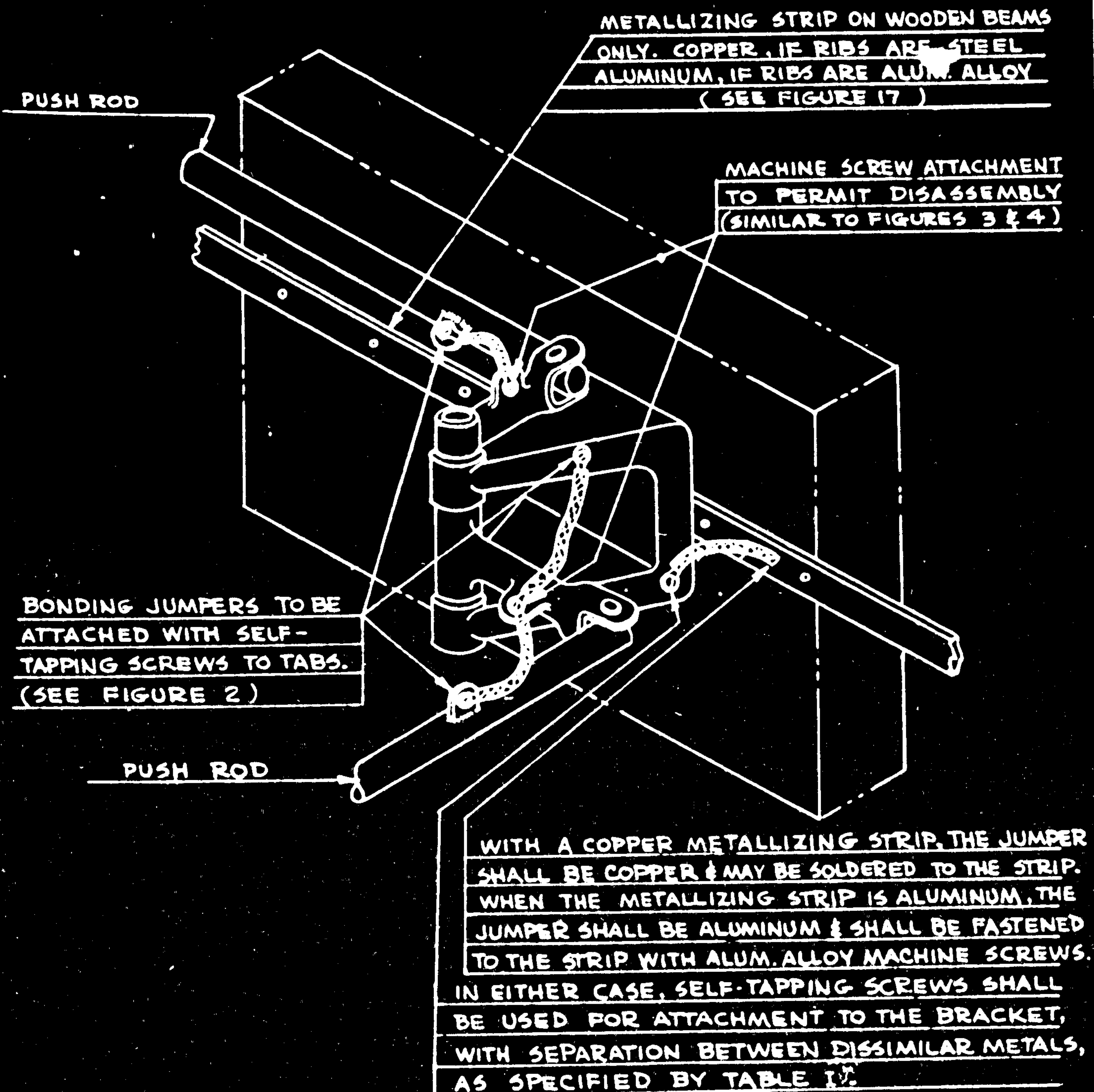
WOODEN BEAM ILLUSTRATED

FIGURE 17

DRAWN	D. THORSEN	BONDING TO STRUCTURE	PART NUMBER
APPROVED			FIGS. 16 & 17
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	

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ISSUED



TYPICAL BONDING ACROSS BELLCRANKS, PUSHRODS & SUPPORTS

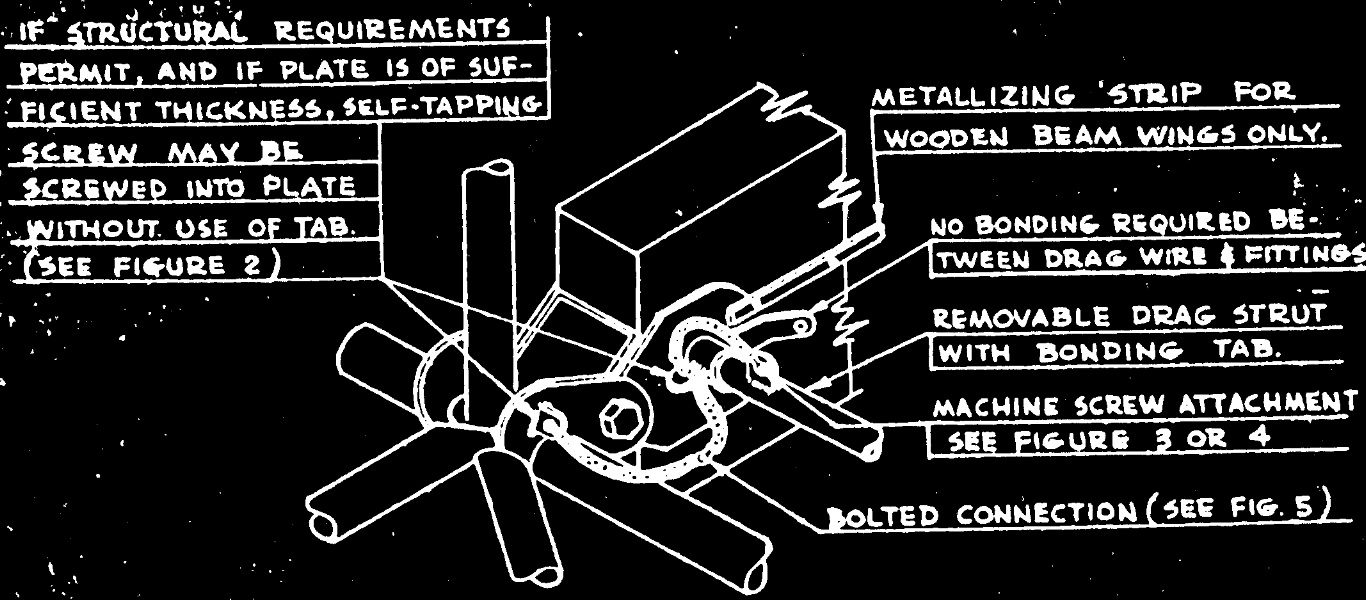
DIAGRAMMATIC

FIGURE 18

DRAWN	D. THORSEN	BONDING BELLCRANKS, ETC.	PART NUMBER
APPROVED			FIG. 18.
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	

REVISED

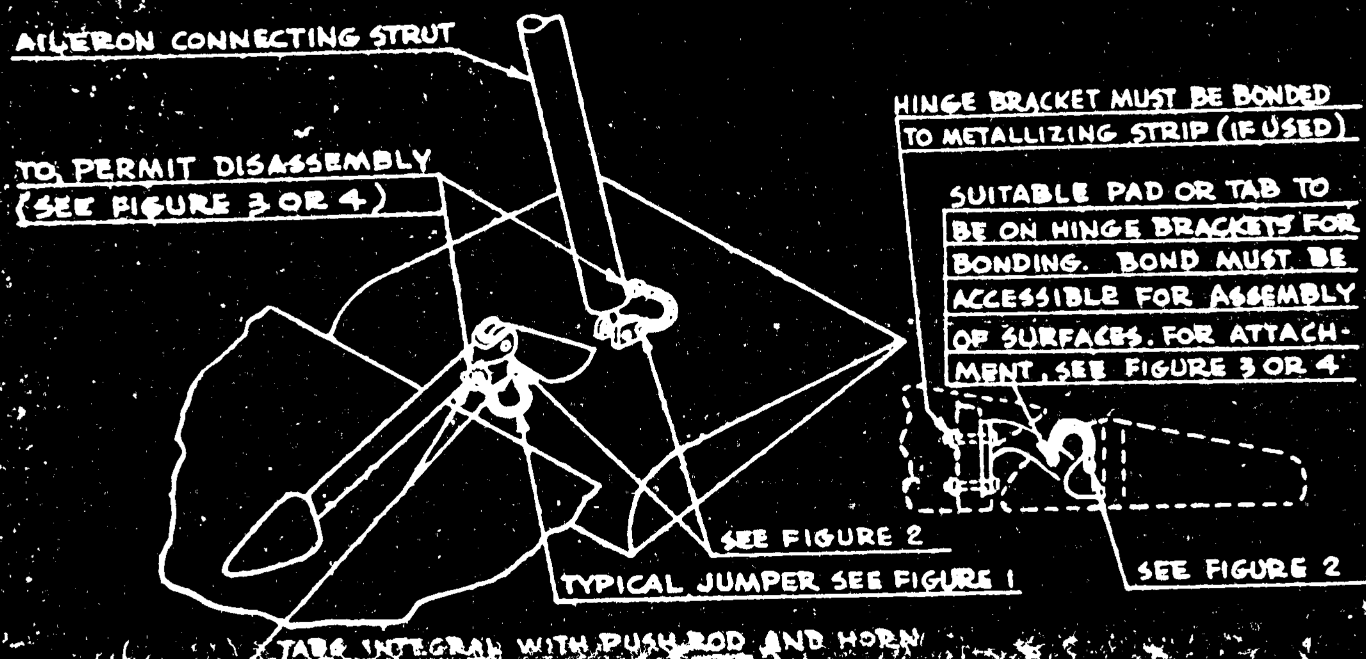
ISSUED



NOTE: BOLTED CONNECTION APPLICABLE FOR ALL REMOVABLE SURFACES

TYPICAL BONDING ACROSS WING HINGE

FIGURE 19

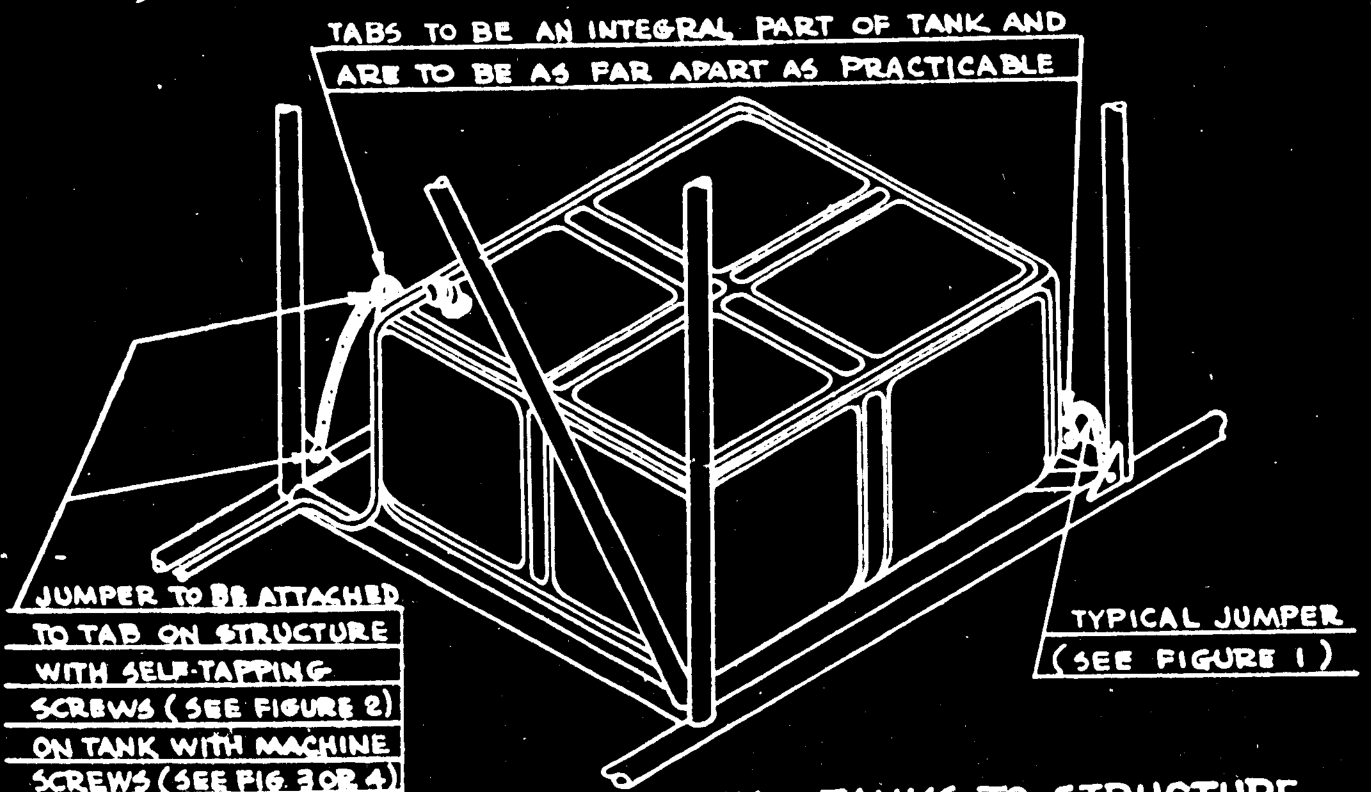


NOTE: THIS IS APPLICABLE IN PRINCIPLE TO AILERONS, FLAPS, RUDDERS, ELEVATORS AND TRIM TABS.

TYPICAL BONDING ACROSS CONTROL SURFACES

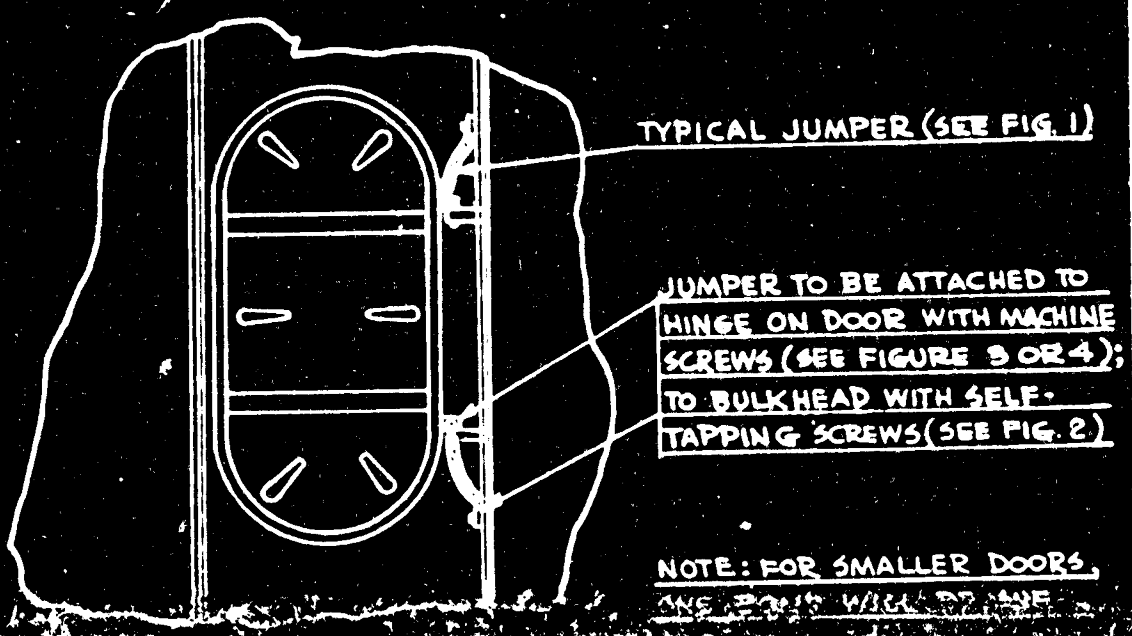
FIGURE 20

DRAWN	APPROVED	CONSOLIDATED AIRCRAFT CORPORATION	PART NUMBER
D. THORSEN		BONDING AT CONTROL SURFACE HINGES, ETC.	FIGS. 19 & 20



TYPICAL METHOD OF BONDING TANKS TO STRUCTURE

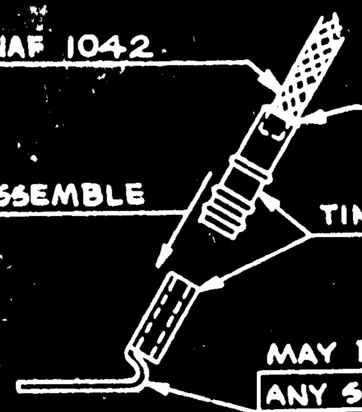
FIGURE 21



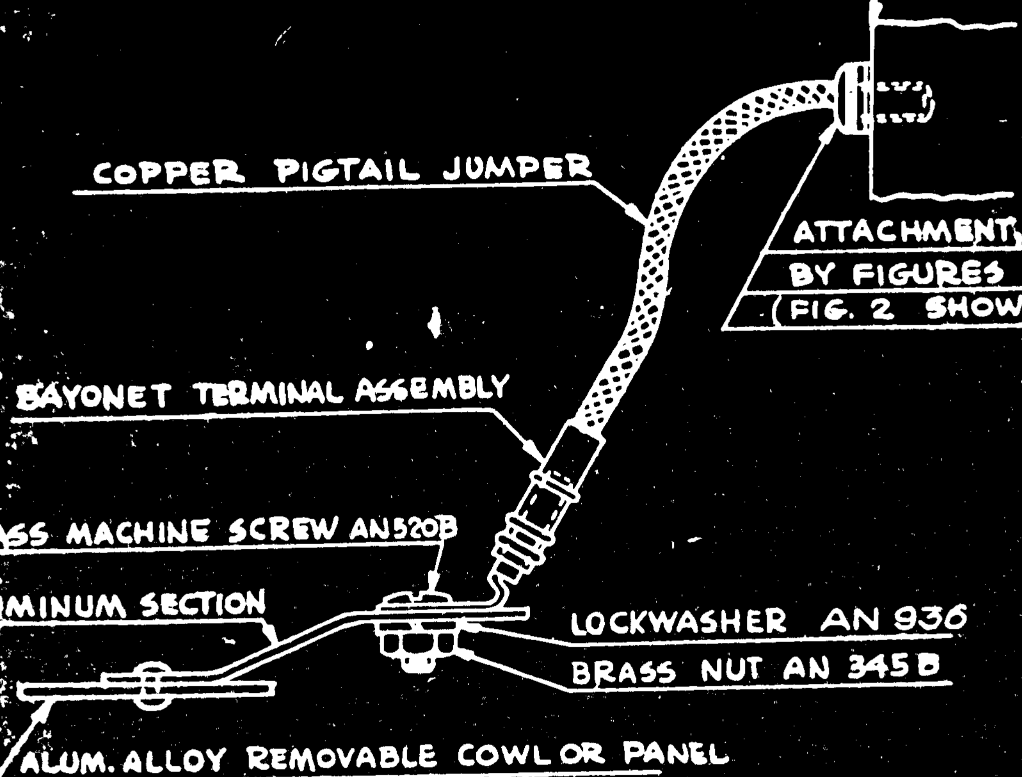
TYPICAL BONDING OF WATERTIGHT BULKHEAD DOORS

FIGURE 22

DRAWN	D. THORSEN	BONDING TO TANKS AND DOORS	FIGS. 21 & 22
APPROVED			
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	



BAYONET TYPE TERMINAL CONNECTION



METHOD OF ASSEMBLY & INSTALLATION

TYPICAL BONDING OF REMOVABLE COWLS, PANELS, OR DOORS TO FACILITATE QUICK REMOVAL

FIGURE 23

DRAWN	D. THOMAS	BONDING OF REMOVABLE DOORS, ETC.	PART NUMBER
CHECKED			FIG. 23
APPROVED		CONSOLIDATED AIRCRAFT CORPORATION LINDBERGH FIELD · SAN DIEGO, CALIF.	

MARKING AND STENCILING

OF

MODEL 28-5MN AIRPLANE

REPORT NO. 28Z5050-N

CHANGE A

Engineer

BY

CHECKED

APPROVED

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

MODEL 28-5MN AIRPLANE REPORT NO 28Z5050-N Chg. A

MARKING AND STENCILING

28-5MN

ALL LETTERS TO BE 1/4" HIGH & PAINTED BLACK EXCEPT AS NOTED. INTERNAL MARKING

TITLE	INSTRUCTIONS FORWARD BLK. #1	MARKING	DUTCH TRANSLATION
Anchor reel housing	To conform with Dwg. 28H1012	Pull-up for brake Free Lock Pawl	Om Te Remmen Trek Vrij Geborgd Pal
		Anchor in Use crank in Mech. Compartment for operating anchor reel	Anker op Gebruik Slinger Van Schot 4
Revolving Windshield Cover Stowage	Port side between frames #0.33 and #0.66 on side on anchor box, stencil on strap in 1/4" letters	Revolving Windshield	Koepeldeksel Voorkoepel
Revolving Windshield Cover Stowage	Stencil on top of cover in white paint. Stencil on bottom of cover	No step Model No.	Hier Niet op staan Model No.
Slot Cover	Stencil on top of cover in white paint Stencil on inside	No Step Model No.	Hier Niet op staan Model No.
Bomber's Window Cover Stowage	Starboard side between frames #0.66 and blk'd. #1.00 between stringers #168 and 162 stencil on hull	Bomber's Window Cover	Deksel Van Uitzichtvenster
Bomber's Window Cover	To conform with Dwg. 28B1179	Top Model No.	Boven Model No.
Bomber's Back	Forward side blk'd. #1, starboard side between stringers	Seat Back	Leuning
Revolving Windshield	Stencil inside on shelf of revolving windshield to	To stow gun	Borgstand Mitrailleur
	Left of gun slot opening above look	Rotate to Stop	

BY

CHECKED

APPROVED

INTERNAL MARKINGS

TITLE	INSTRUCTIONS FORWARD BLK. #1 (Continued)	MARKING	DUTCH TRANSLATION
Revolving Windshield Lock	Stencil at lock handle located left of gun carriage	Lock	Geborgd ↓
Hand Hole Cover	Stencil on inside of cover	Model No.	Type No.
Gun Storage			Mitrailleur (on Deck inside)

CHECKED

APPROVED

INTERIOR MARKINGS

TITLE	INSTRUCTIONS FORWARD BLK. #1 & #2	MARKING	DUTCH TRANSLATION
Life Jacket	To conform with Dwg. 28F1520	Life Jacket	Zwemvest
Chart Board	Port side under pilot's seat stencil on structural member supporting tracks	Chart Board	Kaartenplank
Rudder Pedal	Paint foot rests black		
Pilot's seat arm rest	Stencil on bottom of each arm rest	Model No.	Type No.
Bulkhead #2	Stencil on C/L ship above door	2	2
Door	Stencil on C/L of door near top stencil also per 28B2016	2	2 Dicht
Slot Cover Stowage	On starboard side, aft of bulkhead #1, on aft see stencil vertically	Slot Cover	Spleetdeksel
Draft Curtain	On door of curtain, top center section stencil	28F1068-58 Model No.	None
Flare Release Handle	Above door on bulkhead #2, lower face of flare release handle bracket stencil	Flares	Flares
Buoy Hook Stowage	Starboard side-aft side bulkhead #1 at stringer #165, stencil on strap	Buoy Hook	Bootshaak
Surface Control Lock	To conform with Drawing 28F5550	Control lock bulkhead wheel pilot's seat	Blokkeering Roeren

CHECKED

APPROVED

INTERNAL MARKING

TITLE	INSTRUCTIONS FORWARD BLK. #1 & #2 (Continued)	MARKING	DUTCH TRANSLATION
Spotlight	Station #1.66 & #2.0		Seinlamp
Control Lock	On port side of hull fwd. of frame #1.33 on hull skin outboard of stowage strap stencil	Control Lock	Blokkeering Roeren
Snubbing Post	On end stencil	Model No.	Type No.
Snubbing Post Stowage	To conform with Dwg. 28F2524	Snubbing Post	Bolder
Pilot's Step	On fore & aft horizontal member of pilot's floor support between catwalk & pilot's floor, both sides of ship, paint top surface black & stencil in white	Step	Opstap
Very's Pistol	Starboard side fwd. of frame #1.66 & between stringers #117 and 119 stencil on hull skin	Very's Pistol	Seinpistool
Very's Pistol	Aft of frame #1.66 above Very's pistol ammunition box stencil on hull skin	Very's ammunition	Seinpatronen
Gyro Pilot Control	To conform with Dwg. 28C1006	Gyro pilot control On Off	Aut Piloot Kortsluitkraan Aan Af

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INTERN: MARKING

TITLE	INSTRUCTIONS BETWEEN BLK. #2 & #3	MARKING	DUTCH TRANSLATION
Navigator's Drawer	Port side, stencil between drawer pulls	Navigator's Drawer	Kaartenlade
Food Locker	Starboard side aft of bulkhead #2 stencil on center of box	Food Locker	(None)
Water Tanks Storage	Port side aft of bulkhead #2 stencil on inboard straps - 2 places & on tank	Water Tank	Drinkwater
Parachutes	Stencil on front in 1" black letters	Parachute	Valscherm
Life Jacket	To conform with 28F1520	Life Jacket	Zwemvest
Flare	Port side between frame #2.5 and bulkhead #2 on inboard angle of bracket stencil - 2 places	Flares	Parachute Flares
Screen Navigator's Compt.	To conform with 28F3008	Navigator's Window Screen	Boven Kr. TFL.

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APPROVED

INTERNAL MARKING

TITLE	INSTRUCTIONS BETWEEN BLK. #3 & #4	MARKING	DUTCH TRANSLATION
Life Jackets	To conform with 28F1520	Life Jacket	Zwemvest
Work Platform Stowage	Port side between frame #3.66 & bulkhead #4 bottom of hull stencil on 2 straps	Working Platform	Werkbordes
Signal Flag Stowage	To conform with 28F1509	Signal Flags	Seinvlaggen
Float Control Gear Box	Forward side bulkhead #4 above door opening stencil on gear box cover	Gear Box	None
Spare Bulbs	Port side of door on box, stencil	Spare bulbs	Reserve Lampen
Bulkhead #4	Fore and aft faces C/L of ship above door stencil	4	4
Bulkhead #4 Door	Stencil on door near top also stencil per Drawing 28B2017	4	4 Dicht
Navigator's Hatch Opening Warning	Port side on hull skin of hatch stencil in 1" high red letters	Beware of props	Pas Op Voor Schroeven
Navigator's ventilator	On skin just aft of navigator's ventilator	Caution-keep ventilator closed during take-off and landing	Attentie! Houdt Ventilatieklep Geslotengedurende Start en Landing
Float Control Switch	Port side bulkhead #4 Stencil on Switch Box	Float Control Switch	Eindstandschakelaar Vleugeldrijvers

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APPROVED

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

MODEL 28-5MN AIRPLANE REPORT NO 28Z5050-N Chg. A

INTERNAL MARKING

TITLE	INSTRUCTIONS BETWEEN BLK. #3 & #4 (Continued)	MARKING	DUTCH TRANSLATION
Electric Distribution	To conform with Drawing 28E4012	Aux. Battery Stbd. Gen. Port Generator	Hulp Accu. Generator S.B. Generator B.B.
Electric Diagrams	To conform with Drawing 28F1744	Radio Diagram Wiring Diagram Conduit Diagram Interphone Diagram	Radio Schema Electrisch Schema Leiding Schema Boord Communicatie Schema
Antenna Reel	Starboard side at stringer #337 between bulkhead #3 & beltframe #3.33 stencil on face of bracket	Antenna Reel	Sleep Antenne
Radio Operator's	Starboard side-radio operator's table stencil on center of door near top	Confidential locker and radio spares	None
Navigator's Octant and Binoculars	On port side at frame #3.33 above navigator's table stencil on door of box	Octant and Binoculars	Octant and Prismakijker

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INTERNAL MARKING

TITLE	INSTRUCTIONS BETWEEN BLK. #4 & #5	MARKING	DUTCH TRANSLATION
Retractable Float & Anchor Crank	Starboard side bulkhead #4 near top stencil in vicinity of strap on bulkhead web	Retractable Float & Anchor gear crank	Slinger Vleugeldrijvers Handbeweging en Ankerspil
Tool & Miscellaneous Gear Locker	Starboard side next to bulkhead #4, stencil on inboard face of fwd. locker	Miscellaneous Gear Locker	None
	Stencil on rear locker	Tool Locker	None
Maintenance Manual, Engine Log Book & Aircraft Log Book	To conform to Drawing 28F229	Maintenance Manual Engine Log Book Aircraft Log Book Prop Log Aux. Pwr.Unit Log Data Case	Handboek Deel I & II Alg. Vliegtuig Journaal Motor Boek Technisch Journaal Radio Journaal (ABOVE TRANSLATION IS FOR PARTS NOT YET COMPLETED!)
Pilot's Handbook	To conform with Drawing 28F1508	Pilot's Handbook	Vlieger Handboek
Parachute	Stencil on front in 1"letters	Parachute	Valscherm
Auxiliary Power Unit Cover	To conform with Drawing 28F1323	Model No. Aux.Pwr.Unit	Hulpaggregaat
Kit, Miscellaneous Equipment Special Tool	To conform with Drawing 28U1025	Special Tool Kit Model No. Socket Wrench	Type Y-38(for hull 232) Soksleutel(Y-39 to go on hull 241)
Anti-icer	Drawing	Anti-icer On	Anti-icer Aan

BY

CHECKED

APPROVED

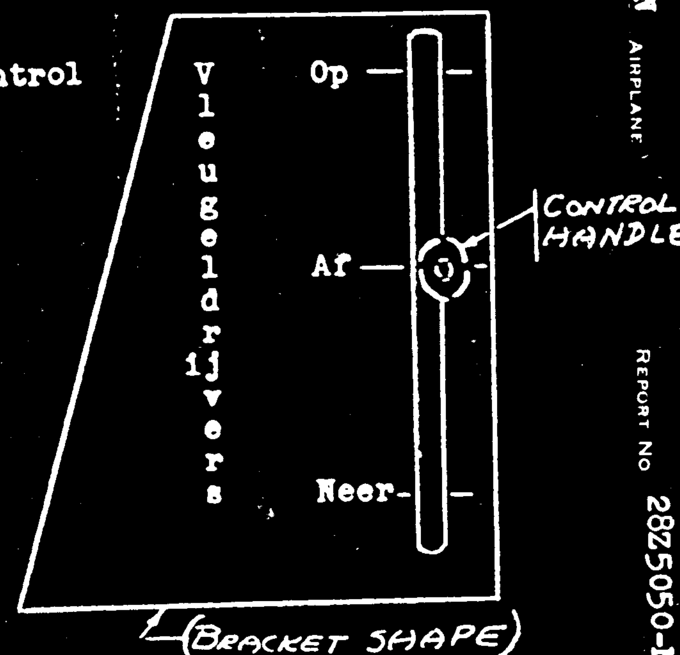
INTERNAL MARKING

TITLE	INSTRUCTIONS BETWEEN BLK. #4 & #5 (Continued)	MARKING	DUTCH TRANSLATION
Auxiliary Power Unit Ventilation Warning	Starboard side, on web of bulkhead #5 above power unit - Stencil in 1" red letters	Warning - Keep hull compartment open when running auxiliary power unit	Attentie! Ventileer Boot Wanneer Hulp Aggregaat Draait
Life Jacket	To conform with Dwg. 28F1520	Life Jacket	Zwemvest
Hoisting Sling	Stencil on forward side of web bulkhead #5 three places. Starboard side at stringer #6, C/L of ship near top of bulkhead port side at stringer #1	Sling	Hijschschinkel
Bilge Pump Hose	Starboard side on top of flange of bulkhead #5 at hose bracket stencil	Bilge Pump Hose	Lens-Pomp
Leveling Lugs	Port side, on forward face of bulkhead #5 stencil near each lug	Level Here	Waterpas
	Port side between stringer #12 & #13 at frame #4.25 & 4.75 stencil near each lug. Protecting portion of lugs to be painted black	Level Here	Waterpas
Cowl Flaps	Port side, aft face of bulkhead #4 stencil at cowl crank	Open Close Cowl Flaps	Open Dicht Koelkleppen

APPROVED BY

INTERNAL MARKING

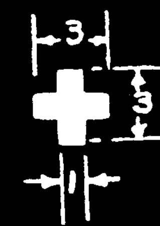
TITLE	INSTRUCTIONS BETWEEN BLK. #4 & #5 (Continued)	MARKING	DUTCH TRANSLATION
Bulkhead #5	Fore & aft sides, on C/L of ship above opening, stencil	5	5
Mechanic's Seat Cushion	To conform with Drawing 22F541	Life Preserver	Zwemvest
Main Fuel Tank	On superstructure skin under both drain valves, stencil	Main Fuel Tank Drain	Aftap Benzinetank
Mechanic's Instruments	In superstructure on right hand side, under inclinometer, stencil	Angle of Chord Line	Instelhoek
Electric Float Control Switch	To conform with Dwg. 28E120	Float Control Switch Up Off Down	



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APPROVED

INTERNAL MARKING

TITLE	INSTRUCTIONS BETWEEN BLK. #5 & #6	MARKING	DUTCH TRANSLATION
Bulkhead #6	Fore & aft side, on C/L ship above door stencil	6	6
Door	On door near top stencil also to conform with 28B2018	6	6 Dicht
Life Jacket	To conform with Dwg. 28F1520	Life Jacket	Zwemvest
Parachute	Stencil on front in 1" black letters	Parachute	Valscherm
First Aid Kit	Port Side fwd. face of bulkhead #6 stencil on bulkhead under strap	First Aid Kit	(Red Cross 3 x 3 x 1")
Boat Hook	Aft side of bulkhead #5 below opening on web at C/L near strap stencil	Boat Hook	Bootshaak



TITLE	INSTRUCTIONS BETWEEN BLK. #6 & #7	MARKING	DUTCH TRANSLATION
Sea Anchor Storage	To conform with Dwg. 28F4085	Sea Anchor	Drijfanker
7-man life raft	Starboard side, between frames #6.6 & #6.8, stencil on hull skin between the two straps	Life Raft	Rubberboot
Rear Entrance Ladder	Port side aft of frame #6.9 between strap & clips, stencil on hull skin	Ladder	Ladder
Very's Pistol	Starboard side aft face bulkhead #6 stencil on bulkhead above pistol	Very's Pistol	Seinpistool
Very's Pistol Ammunition	Starboard side, aft face of bulkhead #6 above Very's pistol ammunition boxes stencil	Very's Ammunition	Seinpatronen

APPROVED

INTERNAL MARKINGS

TITLE	INSTRUCTIONS AFT OF BLK. #7	MARKING	DUTCH TRANSLATION
Bulkhead #7	Fore & aft sides, on C/L over door stencil	7	7
Door	Stencil near top, also to conform with Dwg. 28B2019	7 Dicht	7 DICHT
Tunnel Gun Door	To conform with Dwg. 28B2650	Danger-secure gunner's belt before opening hatch	Waarschuving! Maak Veiligheids Gordel Vast Vóór Openen Luik
Toilet Bag	To conform with Dwg. 28F1520	Toilet Bag	Berg-Plaats
Float Lights	(Aft side Bulkhead #7)		Drijflichten
Fire Extinguisher Valve			B.B. Motor — Kieskraan Op Motor En Trek Handel Uit — S.B. Motor
Rheostats			-Aan- -Uit-

CHECKED

APPROVED

INTERNAL MARKING

TITLE	GENERAL NOTES -- INTERIOR	MARKING	DUTCH TRANSLATION
Gyro Pilot Oil Lines	Each compartment at junction of center section & superstructure & at junction of center section & power plant, stencil, on lines	P & S	A.P.
Vacuum Lines	In addition to the color marking lines should be marked port or starboard in each compartment & at the junction of the center	Port Starboard	B.B. S.B.
Floors	All floors & walkways are to be stenciled on side	Station No. Model No.	Spant No. Type No.
Fire Extinguishers	All hand fire extinguishers (portable, hand & pressure) are to have stenciled in black letters on their sides the weight and the date weighed		
Engine Covers	To conform with Dwg. 28F5044	Model No. Port Engine Cover 28F5044-0 Model No. Starbd. Engine Cover 28F5044-2	Y-38, etc. B.B. Motor Y-38, etc. S.B. Motor
Cockpit Cover	To conform with Dwg. 28F1064	Model No. Pilot's Enclosure	 Best. Comp
Prop. Cover	To conform with Dwg. 28F5036	Model No. Prop. Hub	 Schroefhoes

CHECKED

APPROVED

INTERNA[illegible] MARKING

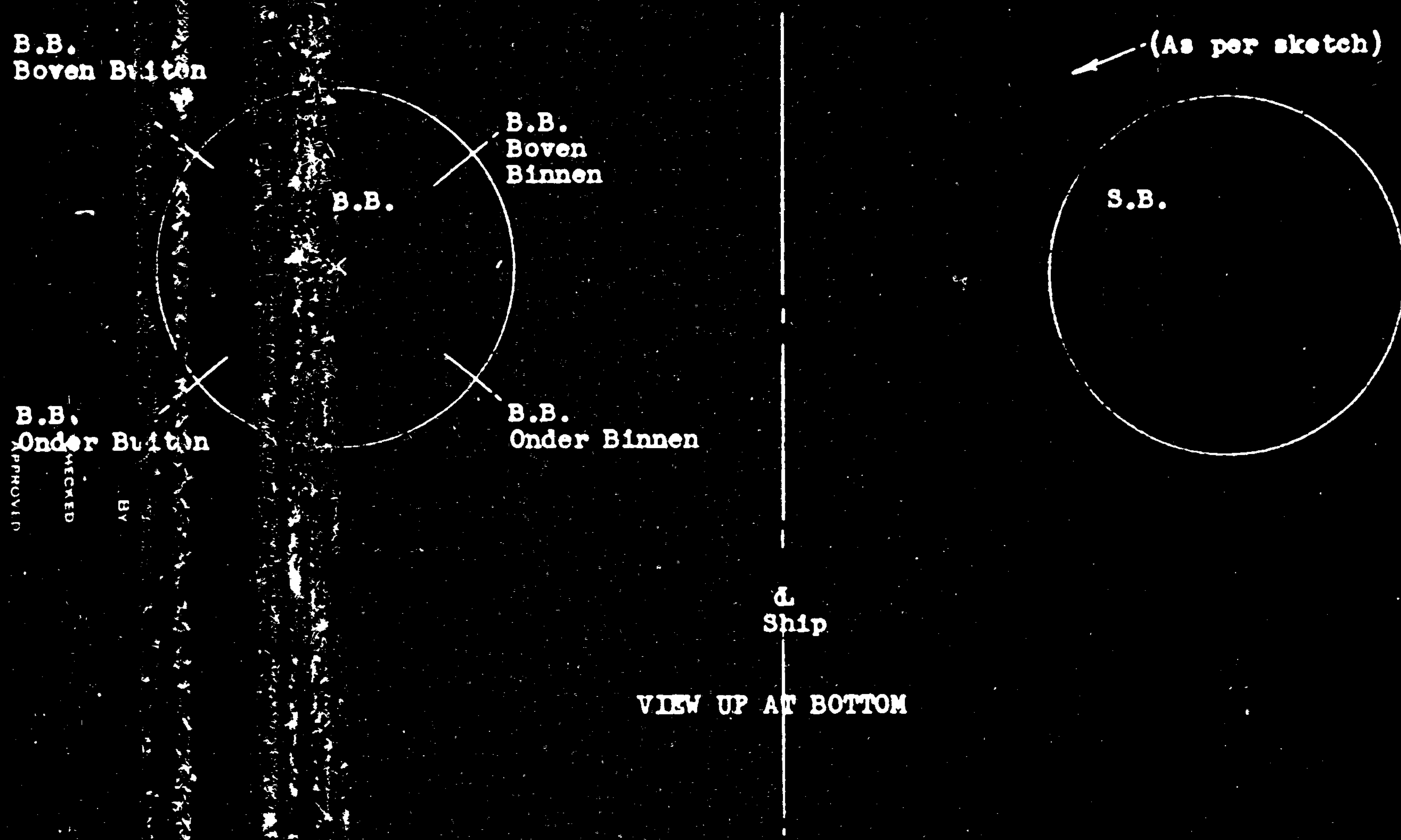
TITLE	NACELLE	MARKING	DUTCH TRANSLATION
Oil Tank Assembly	Stencil to conform with Dwg. 28-0-2003	These bolts must be in place before flight.	Deze Bouten Moeten Vòòr de Vlucht Geplaatst Zijn
		Engine Hoist Attachment	
Filler Assy. Oil Tank	To conform with Dwg. 28-0-2018	Capacity oil tank 65 U.S. Gals.	Inhoud Olietank 246 liter
Starter Pull Release, & Starter Crank	To conform with Dwg. 28D3000	Starter Crank Step	Torn Opstap
Oil Drains Steps & Heater		Starter Release De-icer Drain	Trek Hier Voor Tornen De-icer Aftap Motor Voorvarmer
Oil Cooler Installation	To conform with Dwg. 28-0-5001	Oil Cooler Drain	Aftap Oliekoeler
Nacelle Door Bottom	To conform with Dwg. 28D5018	Oil Drain	Olie Aftap

CHECKED

APPROVED

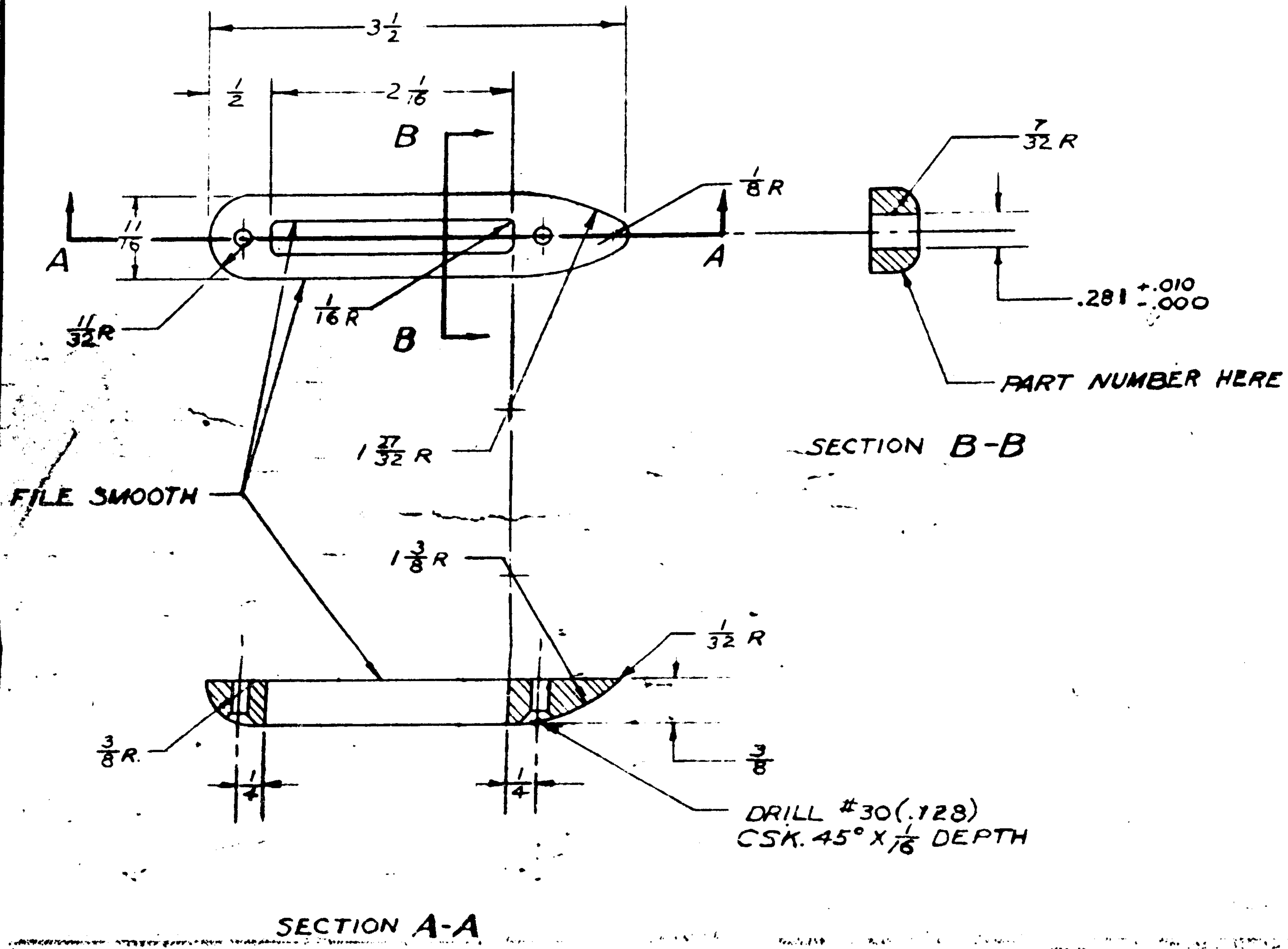
INTERNAL MARKING

TITLE	BEACHING GEAR EXTERIOR	MARKING	DUTCH TRANSLATION
Beaching Gear Front Assembly	To conform with Dwg. 28H3005	L.H. R.H.	B.B. S.B.
Beaching Gear Tail Wheel	To conform with Dwg. 28H1009	Do not push here	Hier Niet Duwen
Nacelle Door Rear	To conform with Dwg. 28D2006		Type No. Boven Buiten (of Binnen) B.B. (of S.B.) Type No. Onder Buiten (of Binnen) B.B. (of S.B.)



BY
CHECKED
APPROVED

LET	ALTERATION	DATE	BY
K	TRACED NO WT. CHG.	10-19	



C-70496.C-77713 & C-88476
C-91876 #91 & ON
C-70496 & 91876 #1-90

MATERIAL NOTE:
MATERIAL FOR CASTING MAY BE
(1) 195T4 AL ALLOY, SPEC AN-QQ-A-390 CL.I, T.S. 29,000 P.S.I. OR
(2) 356T4 AL ALLOY, SPEC AN-QQ-A-394, T.S. 30,000 P.S.I.

ASSY. DASH NO.	MODEL	NEXT ASSY	REQ.
	PBY-5A	28A2010	8
	PBY-5	28A5152	8
	PBY-5	28A2010	8
	PBY-2,3,4	28A2010	
	PBY-1	28A1010	
	28-5MA	28A2010	8
	28-5MC	28A2010	8
	PB2Y-3	29A5003	4
	PB2Y-3	29A3503	2
	PB2Y-2	29F1954	2
	PB2Y-2	29A1012	4

REQUIREMENTS PER AIRPLANE

REPLACES 28F1043 1-19-37 — CALC WT. .06

REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± .015 — SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-5
	AL.AL.CASTING	NOTED	NOTED					

PARTS LIST PER ASSY.

FINISH CODE

A C			
NAVY NOTED	Z-P	2-4-36	MILLER
HEAT TREAT	FINISH	DRAFT / CHECK	STRUCT / MAT / APPROV / ENG

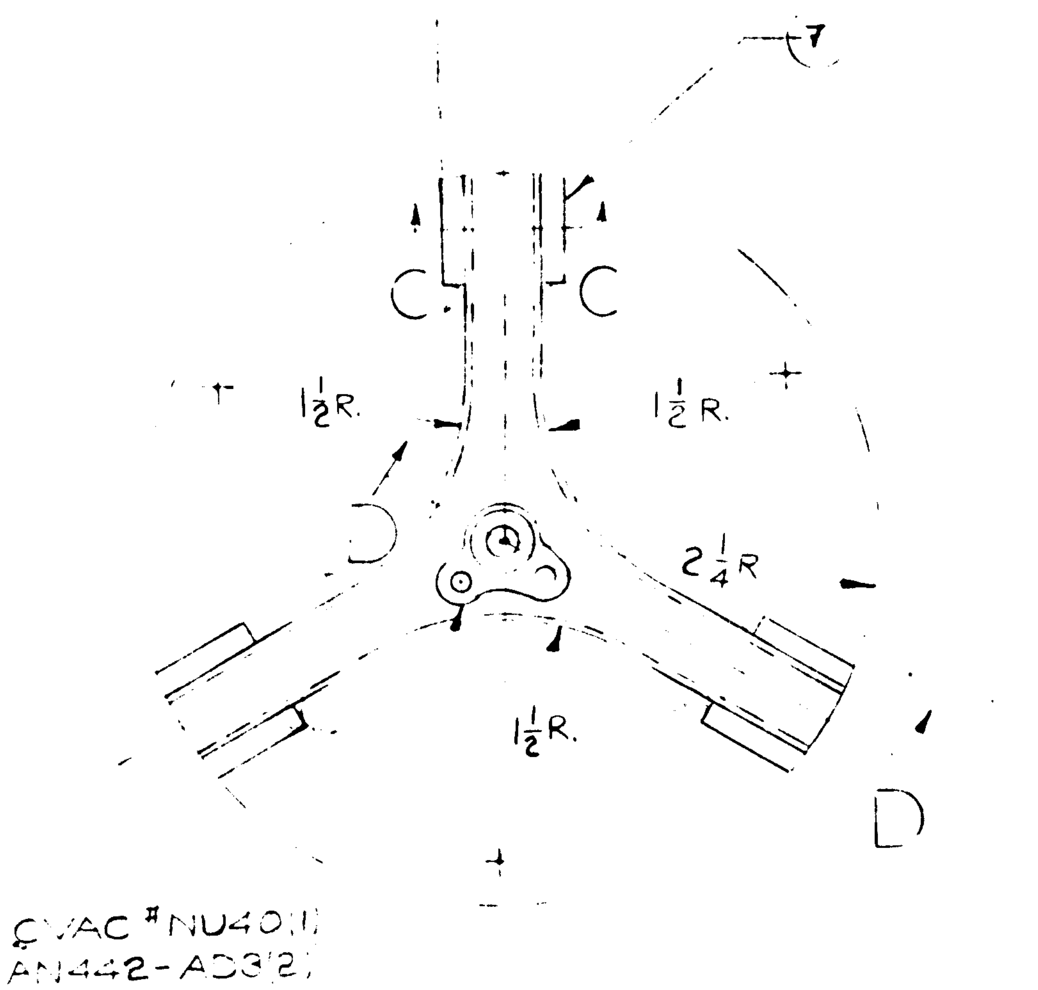
NAME GUIDE - FURNISHINGS - MKXLII RELEASE LEVER

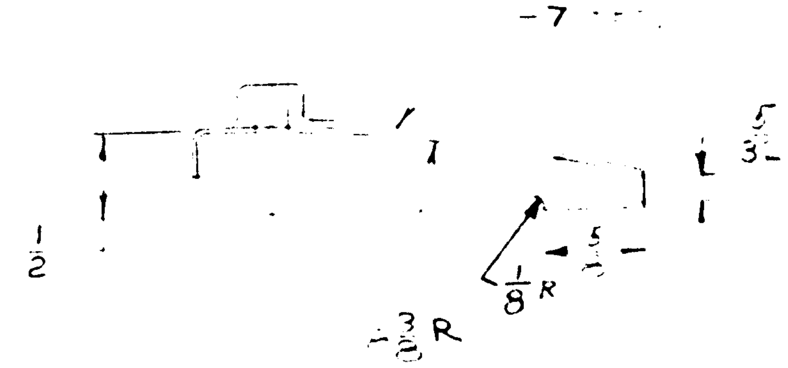
OPP. HAND

DWG. SIZE D — 28F1043

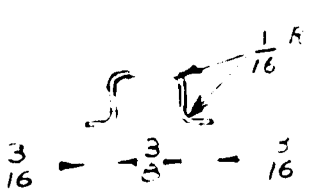
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

LET	ALTERATION	DATE	BY
C	REDRAWN - REPLACED -6 WITH -7 - 8 7/8R WAS 6R		





SECTION D-D



SECTION C-C

ASSY. DASH No.	MODEL	NEXT ASSY.	REQ.

REQUIREMENTS PER AIRPLANE

REPLACES 29T1193-5-3-40 CALC WT.

REPLACED BY ACT. WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/64 — SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC	LH RH REQ. -0	LH RH REQ. -2	LH RH REQ. -3	LH RH REQ. -4	LH RH REQ. -5
-7	.040 x 4 ...			1				

PARTS LIST PER ASSY.

A C	CVAC ZF-32-001	ROSENBAUM
NAVY	Z-P-15	
HEAT TREAT	FINISH	DRAFT / CHECK / STRUCT / MAT / APPROV / ENG

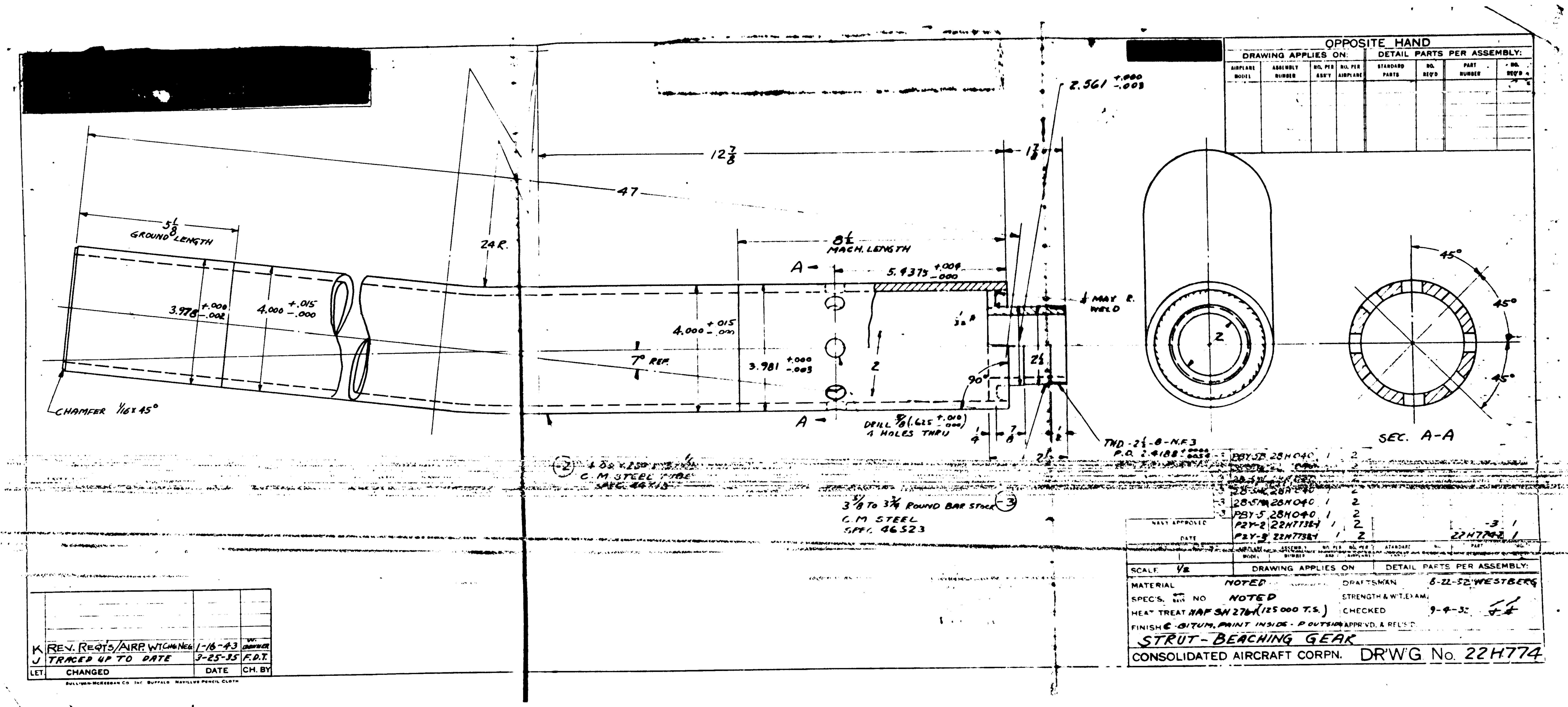
NAME: SPIDER- INSPECTION DOOR

OPP. HAND

DWG. SIZE D — 29T1193

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO DIVISION . . SAN DIEGO, CALIF.

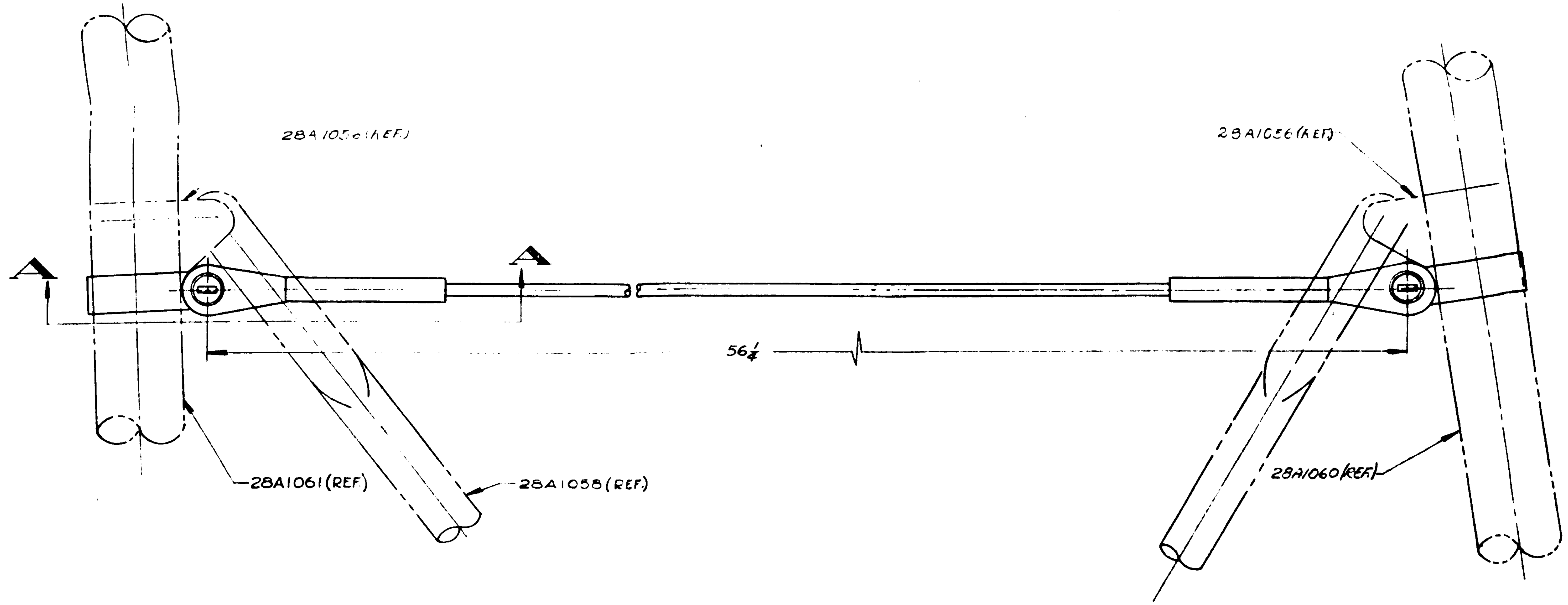
29T1193

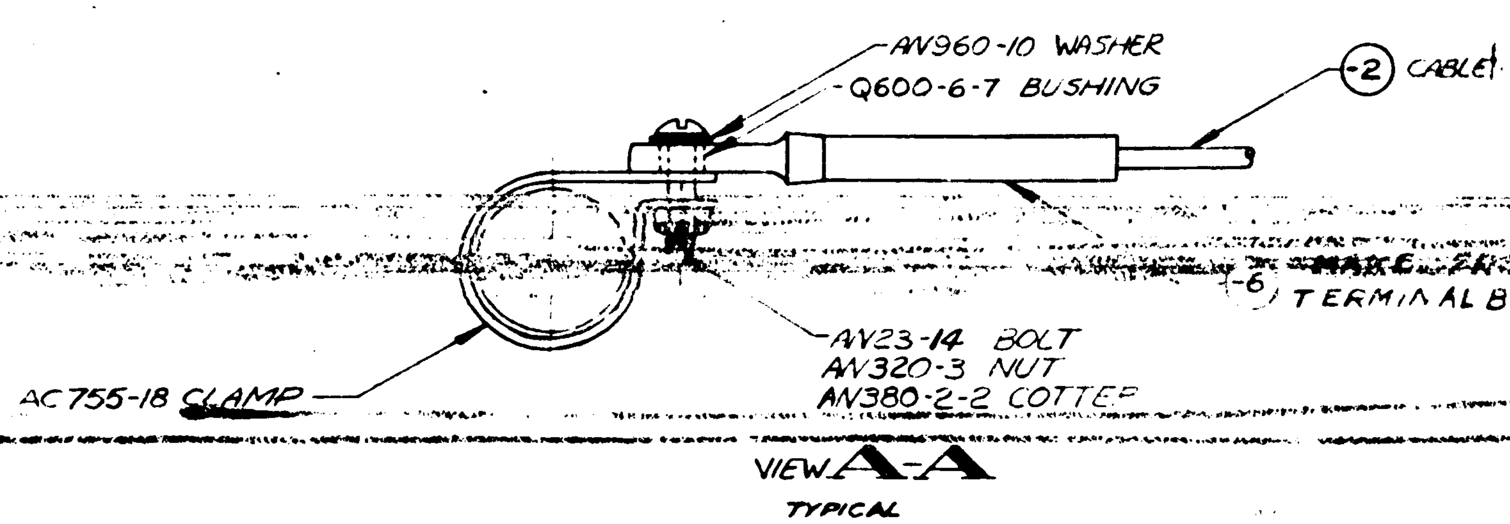


OPPOSITE HAND
DRAWING APPLIES ON:
DETAIL PARTS PER ASSEMBLY:
47
12 7/8
5 1/8 GROUND LENGTH
24 R.
8 1/2 MACH. LENGTH
5.4375 +.004 -.000
2.561 +.000 -.003
3.978 +.000 -.002
4.000 +.015 -.000
7° REF.
3.981 +.000 -.003
CHAMFER 1/16 x 45°
DRILL 5/8 (.625 +.010 -.000) 4 HOLES THRU
THD - 2 1/2 - 8 - N.F.3
SEC. A-A
45°
C.M. STEEL TUBE
3 5/8 TO 3 3/4 ROUND BAR STOCK
C.M. STEEL
SPEC. 46523
PBY-5 28H040 1 2
P2Y-2 22H7384 1 2
P2Y-3 22H7384 1 2
SCALE 1/2
MATERIAL NOTED
DRAFTSMAN 6-22-32 WESTBERG
SPEC'S. NO. NOTED
HEAT TREAT NAF SH 2764 (125 000 T.S.)
CHECKED 9-4-32
FINISH C-BITUM. PAINT INSIDE - P OUTSIDE
STRUT - BEACHING GEAR
CONSOLIDATED AIRCRAFT CORPN.
DR'WG No. 22H774
K REV. REQ'TS/AIRP. WT.CHG.NEG. 1-16-43
J TRACED UP TO DATE 3-25-35 F.D.T.
LET. CHANGED DATE CH. BY

K 197

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				D	TRACED NO. WT CHG		





-6 MAKE FROM NAF 310621 B-5 TERMINAL BY REDRILLING EYE 21/64 DIA.

VIEW A-A
TYPICAL

1. THIS ASSEMBLY IS PART OF GROUND EQUIPMENT & IS NOT TO BE INCLUDED IN WEIGHT OF AIRPLANE.
2. PRE-STRETCH CABLES 60% FOR PBY-2, 50% FOR PBY-1 (RATED STRENGTH.)
3. BOIL SPLICED CABLES IN LINSEED OIL.

ASSY DASH No	MODEL	NEXT ASSY	REQ
-0	PBY-2	28A1063	2
	PBY-...		
	28-5AMN		
	28-5AMC		
	28-5MAY		
	28-5MC		
	28-5MR		
	28-5MA		
	PBY-5B		
	PBY-5A		
	PBY-5		
	PBY-4		
	PBY-3		
	PBY-2		
-0	PBY-1	28A1063	2

REQUIREMENTS PER AIRPLANE

REPLACES 28A1068 OF 2-24-37

SCALE 12"=1'-0"

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/16

STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC	REQ -0
Q600-6-7				2
AC755-18				2
AN960-10				2
AN380-2-2				2
AN320-3				2
AN23-14				2
-2	3/32 DIA 7x19 FLEX. CABLE AN-RRC-43			1
-6	MAKE FROM NAF 310621 B-5			2

PARTS LIST PER ASSY.

AC
NAVY NONE — HEAT TREAT
NOTED — FINISH
DRAFT STANDLEY 2-23-37 — CHECK MILLER — APPROV. L.C.W. 3-11-36

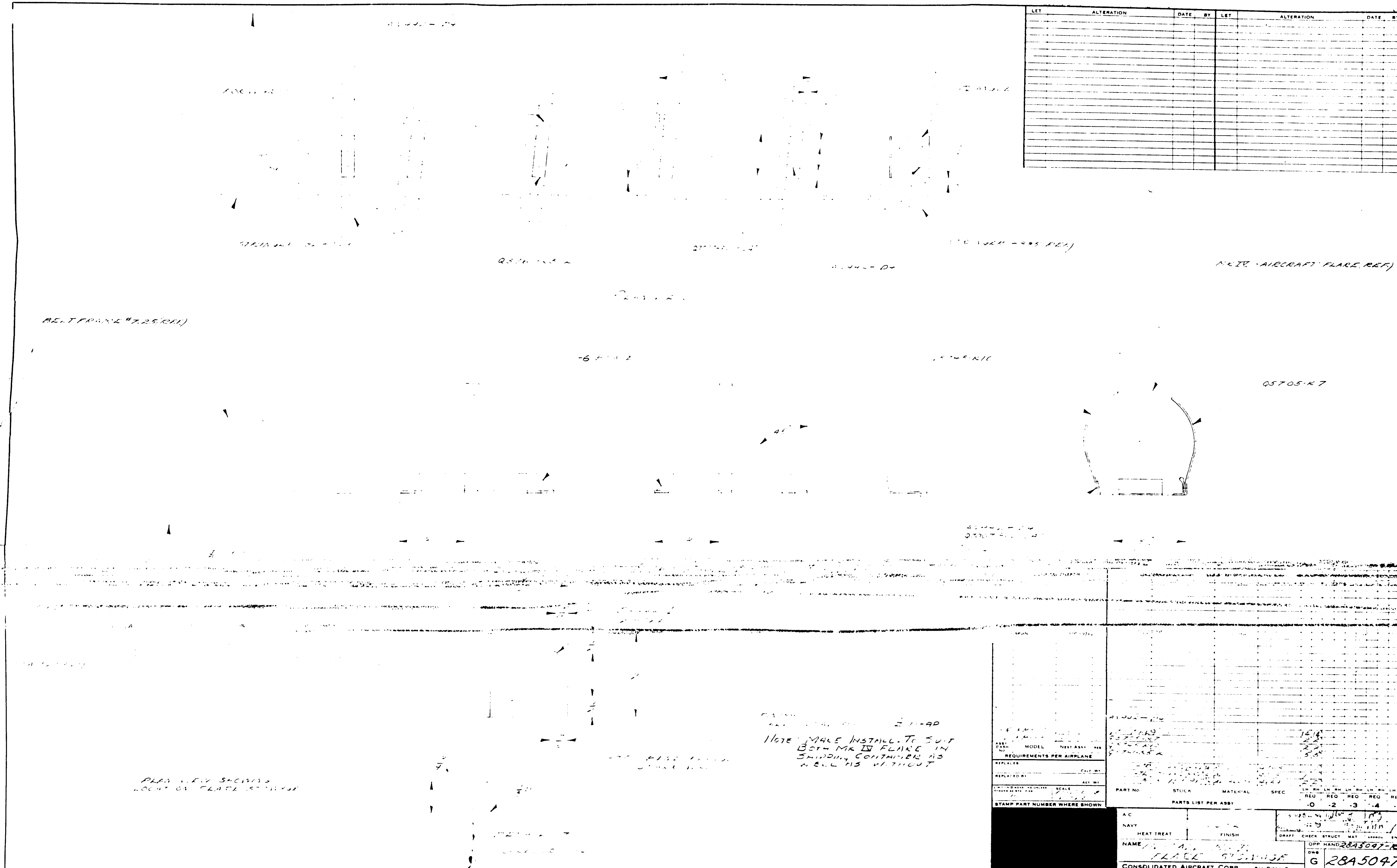
NAME SAFETY CABLE-ARM'T-BOMB LOAD PLATFORM

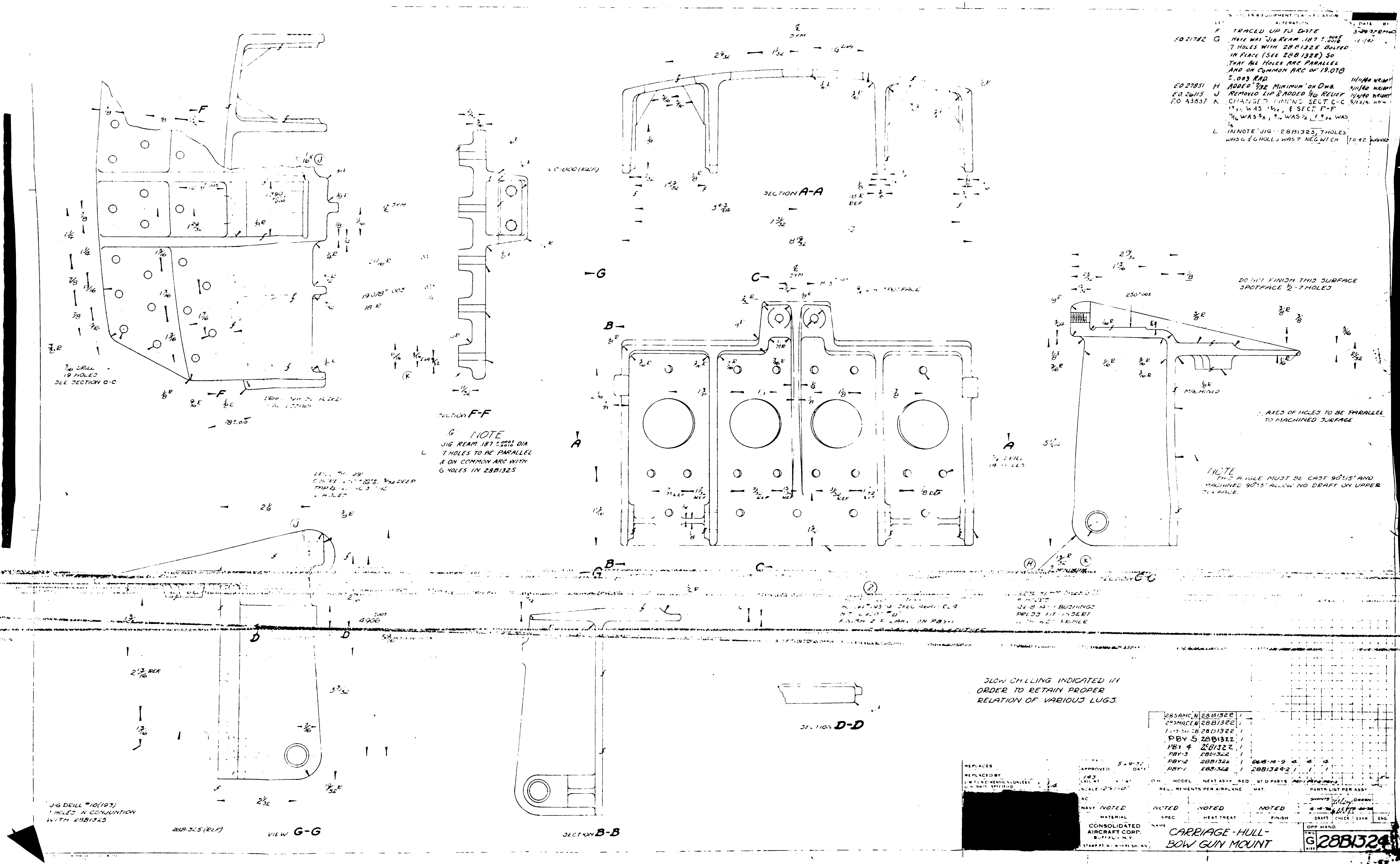
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

G 28A1068

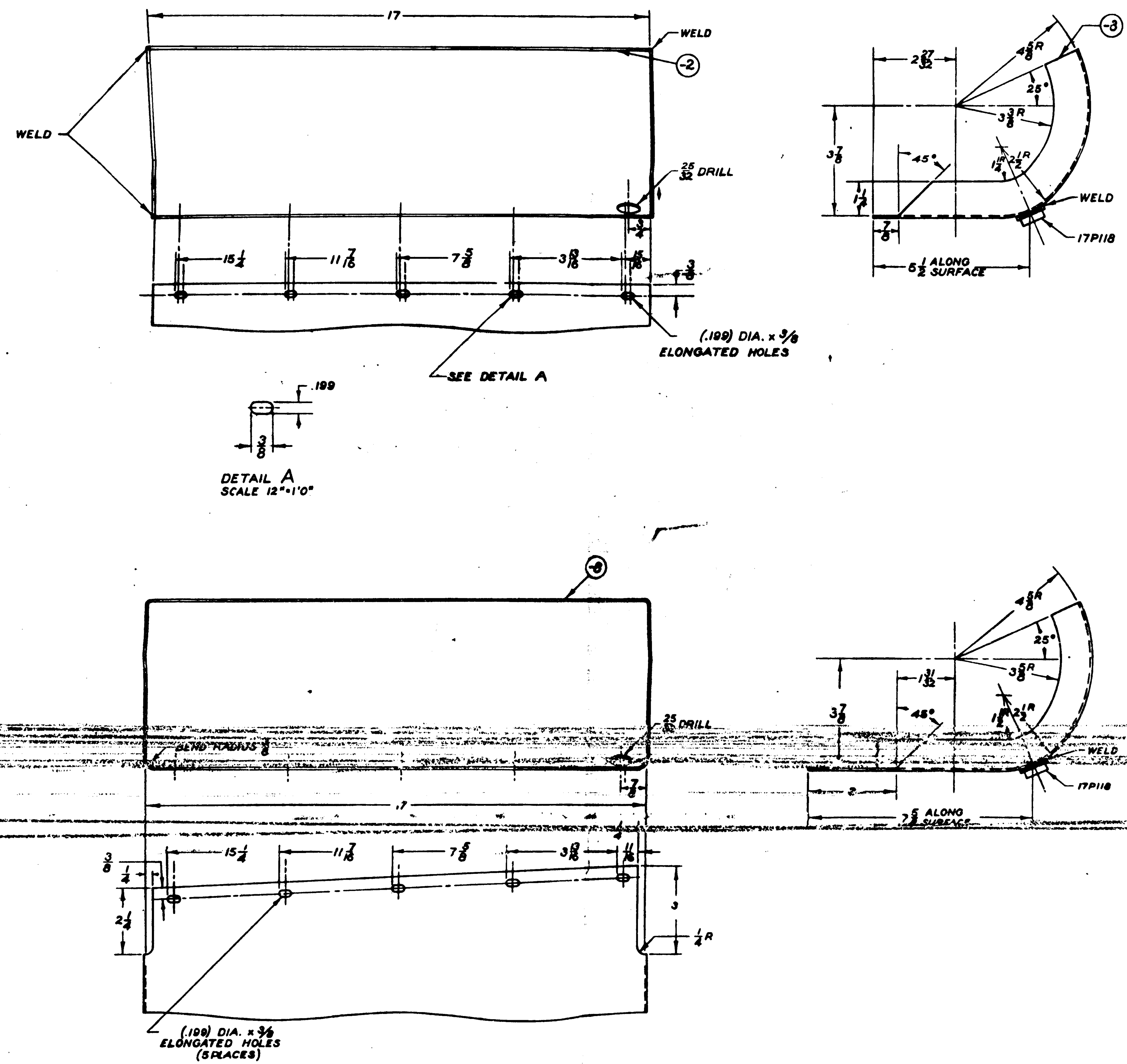
ENG. FILE

28A1068


MK IV AIRCRAFT FLARE, REF.)
Q5705-K7
NOTE: MAKE INSTALL. TO SUIT
BOTH MK IV FLARE IN
SHIPPING CONTAINER AS
WELL AS WITHOUT
LET
ALTERATION
DATE
BY
ASSY DASH NO
MODEL
NEXT ASSY
REQ
REQUIREMENTS PER AIRPLANE
REPLACES
CALC WT
REPLACED BY
ACT WT
SCALE
STAMP PART NUMBER WHERE SHOWN
PART NO
STOCK
MATERIAL
SPEC
LH RH LH RH LH RH LH RH LH RH
REQ REQ REQ REQ REQ
-0 -2 -3 -4 -5
PARTS LIST PER ASSY
A C
NAVY
HEAT TREAT
FINISH
DRAFT
CHECK
STRUCT
MAT
APPROV
ENG
NAME
OPP HAND 28A5047-R
DWG SIZE G
28A5047
CONSOLIDATED AIRCRAFT CORP.
SAN DIEGO CALIF


TRACED UP TO DATE
HOLE WAS "JIG REAM .187 7 HOLES WITH 28B1325 BOLTED IN PLACE (SEE 28B1328) SO THAT ALL HOLES ARE PARALLEL AND ON COMMON ARC OF 19.078 ±.003 RAD
ADDED 1/32 MINIMUM ON DWG.
REMOVED LIP & ADDED 1/16 RELIEF
SECTION A-A
SECTION F-F
NOTE
JIG REAM .187 DIA 7 HOLES TO BE PARALLEL & ON COMMON ARC WITH 6 HOLES IN 28B1325
3/16 DRILL 19 HOLES SEE SECTION C-C
DO NOT FINISH THIS SURFACE SPOTFACE 1/2 - 7 HOLES
AXES OF HOLES TO BE PARALLEL TO MACHINED SURFACE
NOTE
THIS ANGLE MUST BE CAST 90°15' AND MACHINED 90°15' ALLOW NO DRAFT ON UPPER SURFACE.
MACHINED
SLOW CHILLING INDICATED IN ORDER TO RETAIN PROPER RELATION OF VARIOUS LUGS.
SECTION D-D
JIG DRILL #10(.193) 7 HOLES IN CONJUNTION WITH 28B1325
VIEW G-G
SECTION B-B
PBY 5 28B1322
PBY 4 28B1322
PBY-3 28B1322
PBY-2 28B1322
PBY-1 28B1322
NOTED
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
CARRIAGE - HULL - BOW GUN MOUNT
G 28B1324

LET	ALTERATION	DATE	BY
K	REDRAWN:- ADDED -8. REMOVED -7 FROM -5 ASSY. REMOVED AC365D1032(5) & AN52...(5) FROM B/M. REPLACED -3 BY -8 FOR -5 ASSY. WT. CHG. ... -5 ASSY	8-19-43	
L	IN -5 ASSY. REMOVED -2(1). NO WT. CHG.		



C.91876 -91 & ON
C.88476 -83 & ON
151 & ON
C.91876 - 1 TO 90
C.88476 - 1 TO 52
1 TO 150

ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ.
-5	PBY-5	28C1001	1
-5	PBY-5A		1
-5	PBY-5B		1
-0	PBY-5		1
	PBY-5A		1
	28-5AMN		1
	PBY-5B		1
	28-5AMC		1
	28-5MN		1
	28-5ME		1
	28-5MC		1
	28-5MA		1
	PBY-1		1

REQUIREMENTS PER AIRPLANE

28C1138 OF 5-27-36
28C1138 OF 8-19-43
1/32 — SCALE 6"=1'0"
STAMP PART NUMBER WHERE SHOWN

PART No		STOCK	MATERIAL	SPEC	-0	-2	-3	-4	-5
	-8	.040 x 14 3/8 x 19	5230 AL. ALL	QQ-318-A					1
17P118					1				1
	-3	.040 x 6 1/2 x 6 3/4	52 SO AL. ALL	QQ-318-A	2				
	-2	.040 x 12 x 17 1/4	52 SO AL. ALL	QQ-318-A	1				

PARTS LIST PER ASSY.

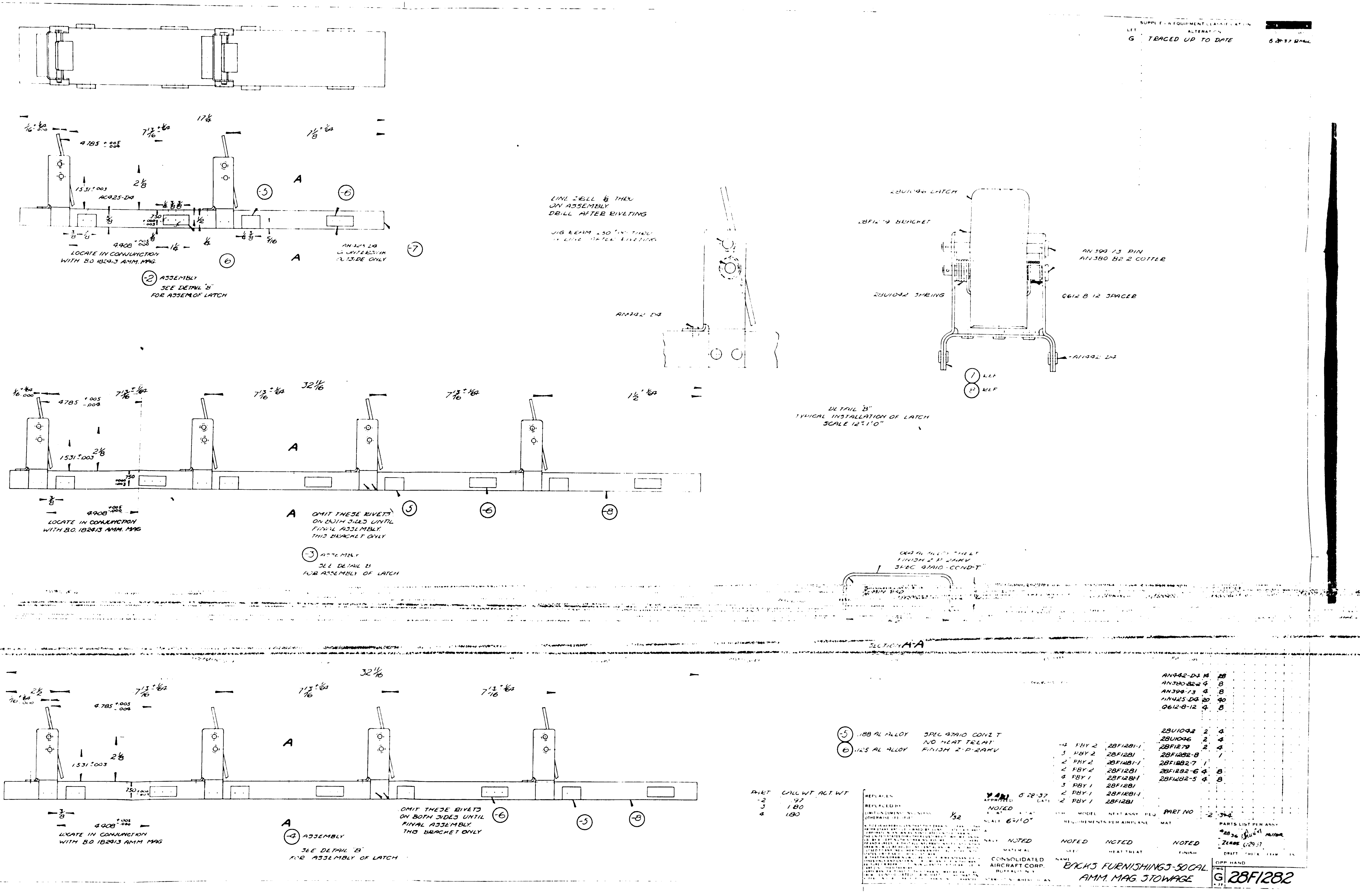
A C — NAVY — HEAT TREAT
Z-P-GP — FINISH
HACK 5-27-36 — MILLER 3-19-37
DRAFT — CHECK — STRUCT — MAT — ENG

ENG. FILE

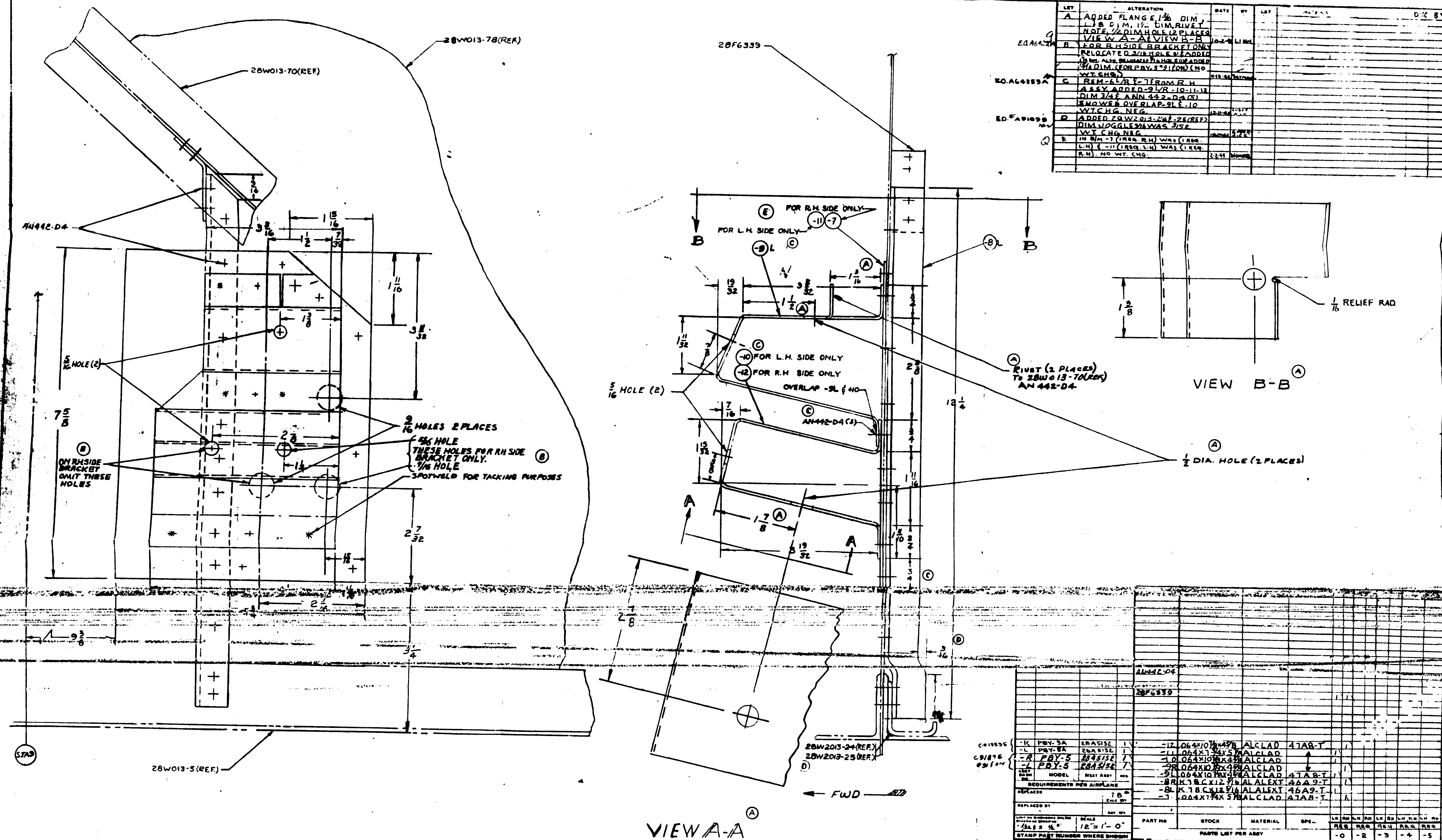
NAME
PAN SERVO-UNIT-OIL
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

G 28C1138

P 8911282



G TRACED UP TO DATE
LOCATE IN CONJUNCTION WITH B.O. 182413 AMM. MAG.
-2 ASSEMBLY SEE DETAIL "B" FOR ASSEM. OF LATCH
DRILL AFTER RIVETING
28U1046 LATCH
28F1279 BRACKET
AN394-13 PIN
AN380 B2-2 COTTER
28U1042 SPRING
Q612 B 12 SPACER
DETAIL "B" TYPICAL INSTALLATION OF LATCH SCALE 12"=1'0"
OMIT THESE RIVETS ON BOTH SIDES UNTIL FINAL ASSEMBLY. THIS BRACKET ONLY
-3 ASSEMBLY SEE DETAIL B FOR ASSEMBLY OF LATCH
SECTION A-A
-4 ASSEMBLY SEE DETAIL "B" FOR ASSEMBLY OF LATCH
-5 .188 AL ALLOY SPEC 47A10 COND T NO HEAT TREAT
-6 .125 AL ALLOY FINISH Z-P-2AKV
AN442-D4
AN380-B2-2
AN394-13
AN425-D4
Q612-B-12
28U1042
28U1046
28F1279
28F1282-8
28F1282-7
28F1282-6
28F1282-5
PART NO
PARTS LIST PER ASSY
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
BACKS FURNISHINGS - 50 CAL. AMM. MAG. STOWAGE
G 28F1282



LET	ALTERATION	DATE	BY
A	ADDED FLANGE 1 3/16 DIM, 1 7/8 DIM, 1 1/2 DIM, RIVET NOTE, 1/2 DIM HOLE (2 PLACES) VIEW A-A & VIEW B-B	10-2-42	LI NN
B	FOR R.H SIDE BRACKET ONLY RELOCATED 5/16 HOLE & ADDED 1 1/2 DIM. ALSO RELOCATED 9/16 HOLE & ADDED 1 5/16 DIM. (FOR PBY. 5 #91 [ON]) (NO WT. CHG.)	11-18-42	SEYMOUR
C	REM -6 L/R & -7 FROM R.H ASSY. ADDED -9 L/R -10-11-12 DIM 3/4 & ANN 442-D4 (5) SHOWED OVERLAP -9L & -10 WT. CHG. NEG.	12-11-42	[illegible]
D	ADDED 28W2013-24 & -25 (REF) DIM. JOGGLE 3/16 WAS 3/32 WT. CHG. NEG.	[illegible]	[illegible]
E	IN B/M -7 (1 REQ. R.H) WAS (1 REQ. L.H) & -11 (1 REQ. L.H) WAS (1 REQ. R.H). NO WT. CHG.	2-2-43	[illegible]

E.O. A64[illegible] — E.O. A64253A — E.O. #A01099

ASSY DASH NO	MODEL	NEXT ASSY	REQ.
-K	PBY-5A	28A5152	1
-L	PBY-5A	28A5152	1
-R	PBY-5	28A5152	1
-L	PBY-5	28A5152	1

REQUIREMENTS PER AIRPLANE

REPLACES — 78 CALC WT

REPLACED BY — ACT WT

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED: ±1/32 & ± 1/2° — SCALE 12" = 1'- 0"

STAMP PART NUMBER WHERE SHOWN

PART NO	STOCK	MATERIAL	SPEC.
AN442-D4			
28F6339			
-12	.064X10 1/8X4 5/8	ALCLAD	47A8-T
-11	.064X7 3/4X5 7/8	ALCLAD	
-10	.064X10 1/8X4 5/8	ALCLAD	
-9R	.064X10 1/8X4 5/8	ALCLAD	
-9L	.064X10 1/8X4 5/8	ALCLAD	47A8-T
-8R	K.78 C X12 9/16	AL ALEXT	46A9-T
-8L	K.78 C X12 9/16	AL ALEXT	46A9-T
-7	.064X7 3/4X 5 7/8	ALCLAD	47A8-T

PARTS LIST PER ASSY — LH/RH REQ: -0, -2, -3, -4, -5

AC		HLAVLN	LINN	GERBER		GROVER	
NAVY	Z-P-G-P	9-9-42	9-15-42		CUSTER	9-25-42	[illegible]
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG

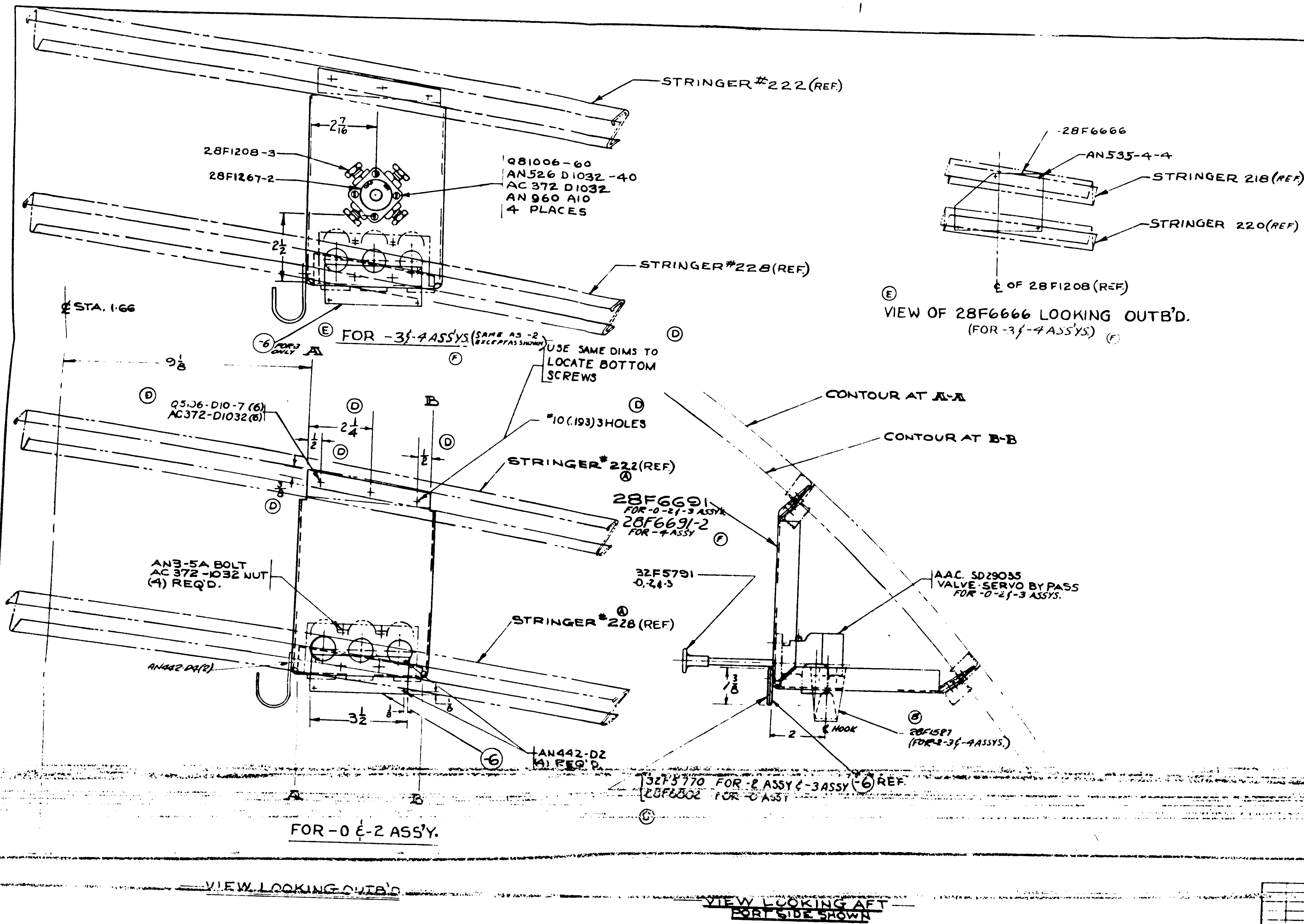
NAME BRACKET ASSY-ARMT MK42 BOMB RACK CONTLS. PULLEY

OPP. HAND. 28F6334 R

DWG. SIZE G — 28F6334

R

CONSOLIDATED AIRCRAFT CORP — SAN DIEGO, CALIF.



LET	ALTERATION	DATE	BY
A	STRGR #222 WAS #228, STR #228 WAS #252	2-9-42	[illegible]
B	CREATED -2 ASSY FOR PBY-5 & 5A ADDED 28F1527(1) TO -2 ASSY WT CHG NEG		
C	CHGD. 28F6802 (1) WAS 32F5770(1) FOR -0 ASSY NO. WT. CHG		CARLSON
D	REPLACED AN442-D4 (6) WITH Q5106-D10-7(6) & AC372-D1032(6) ADDED DIMS 3/8, 2 1/4, 1/2, 1/2 DIMS ADDED NOTE "USE .... BOTTOM SCREWS" & DRILL NOTE "#10(.193) 3HOLES" WT. CHG. NEG	6-29-42	EASTERLY
E	CREATED -3 ASS'Y. FOR PBY-5 & 5A. WT. CHG. NEG.		
F	CREATED -4 ASSY WT -4 ASSY .35		

WT OF -6 : .08#

ASSY	WT
-0	.50
-2	.50
-3	.50
-4	.35

ASSY DASH NO	MODEL	NEXT ASSY	REQ	
-4	PBY-5A	28F6716	1	MCR 1A4(R)
-4	PBY-5	28F6713	1	MCR 1A4(R)
-3	PBY-5A	28F6713	1	MCR 101-7
-3	PBY-5	28F6713	1	MCR 101-7
-0	28-5AMN	28F5513	1	
-2	PBY-5A	28F5513	1	CONT 18476
-2	PBY-5B	28F5513	1	
-2	PBY-5	28F5513	1	CONT 91876 81 TO 90

REQUIREMENTS PER AIRPLANE

REPLACED — NOTED CALC WT
REPLACED BY — ACT WT
SCALE 1/32 — 6" = 1'-0"
STAMP PART NUMBER WHERE SHOWN

PART NO	STOCK	MATERIAL	SPEC
32F5791-3			
32F5791-2			
32F5791-?			
28F6691-2			
AN535-4-4			
AC372-D1032			
Q5106-D10-7			
Q81006-60			
AN442-D2			
AC372-1032			
AN3-5A			
AN442-D4			
AN960A10			
AN526-D1032-40			
SD29035	AIRCRAFT ACCESSORIES CORP.		
32F5770			
28F6691			
28F1527			
28F6802			
28F6666			
28F1208-3			
28F1267-2			
-6	.064" × 1/2 × 2 3/4	ALCLAD	47A8 COND A

PARTS LIST PER ASSY — REQ -0, -2, -3, -4, -5

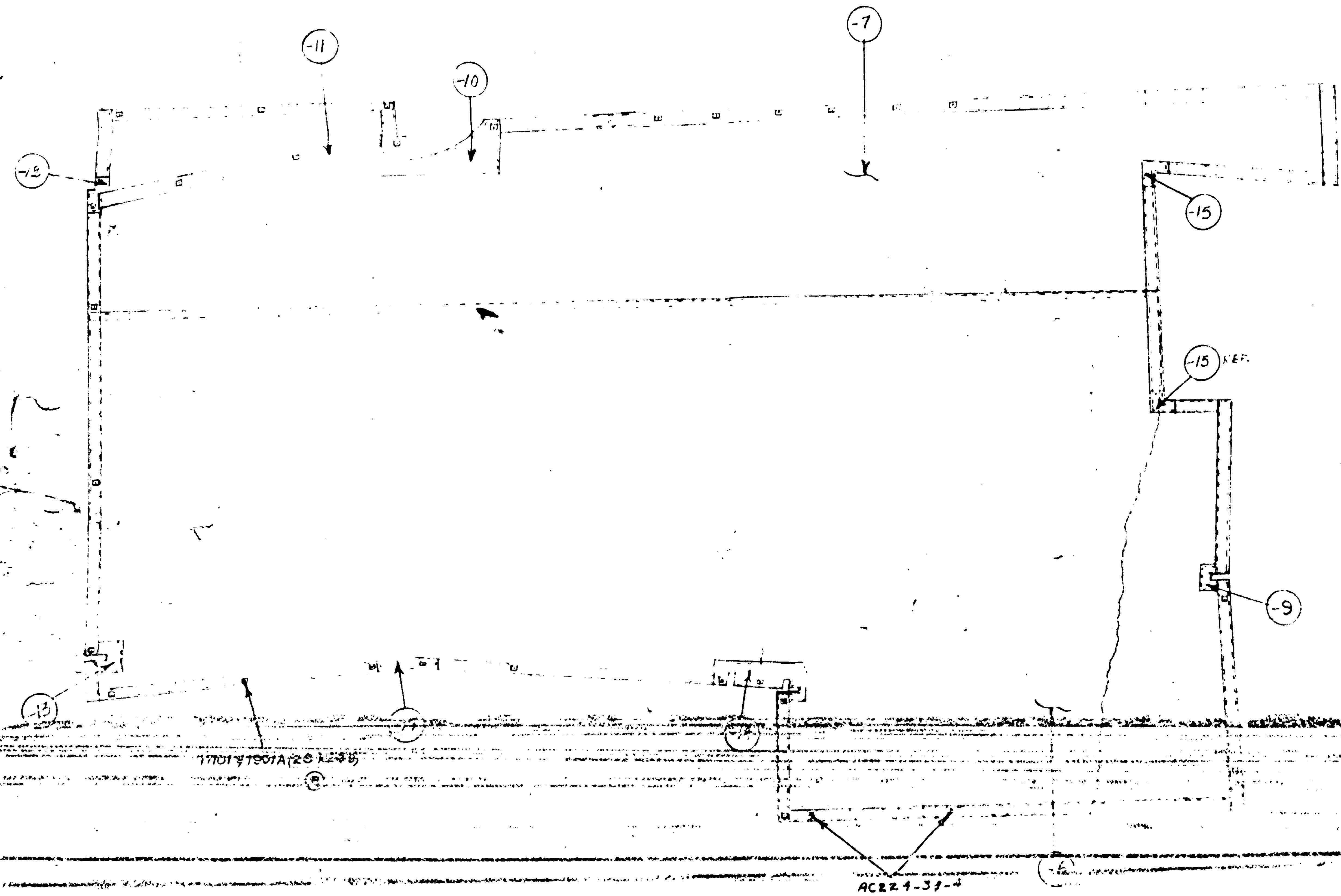
A.C. SR-53 — -6-Z-P
NAVY — HEAT TREAT — FINISH
DRAFT — CHECK — 2-24-42

NAME INSTALL'N GYROPILOT SERVO BYPASS VALVE SPERRY SYSTEM.

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF

DWG G 28F6668

R



LET	ALTERATION
A	REMOVED -16
B	REVISED & REDRAWN. CAC # FAS 87-50 #1701 ... CAC # FAS-78 #1901 ...

NOTE:
1. INSTALL FAB-18 STRIP IN HEM AT ALL PLACES WHERE FASTENERS ARE LOCATED.
2. -18 IS SUFFICIENT QUANTITY OF [illegible] TO REINFORCE HEMS AS REQUIRED.
3. C.A.C. # FAS-87-50 & 79 MAY BE PURCHASED FROM UNITED CARR FASTENER CORP, SAN FRANCISCO, CALIF.

PART No	STOCK	MATERIAL	REQ -0
CAC # FAS-87-50 #17101 SOCKET			28
CAC # FAS-79 #1901 A WASHER			28
AC224-3	STUD		2
AC224-4	EYELET		2
-18	3/4 X 175	FAB-18	
-17	2 X 6½	FAB-60	1
-15	4½ X 5	FAB-60	2
-14	6 X 10½	FAB-60	1
-13	4 X 4½	FAB-60	1
-12	2½ X 5	FAB-60	1
-11	3 X 16	FAB-60	1
-10	8 X 9½	FAB-60	1
-9	3½ X 4	FAB-60	1
-7	19 X 90	FAB-60	1
28F6951-6	32 X 79	FAB 60	1

PARTS LIST PER ASSY

ASSY DASH NO	MODEL	NEXT ASSY	REQ
	B-24-5A	28F6945	1
		[illegible]	1

REQUIREMENTS PER AIRPLANE

REPLACES 28F6951 OF 10/5/42

SCALE: NO SCALE

STAMP PART NUMBER WHERE SHOWN

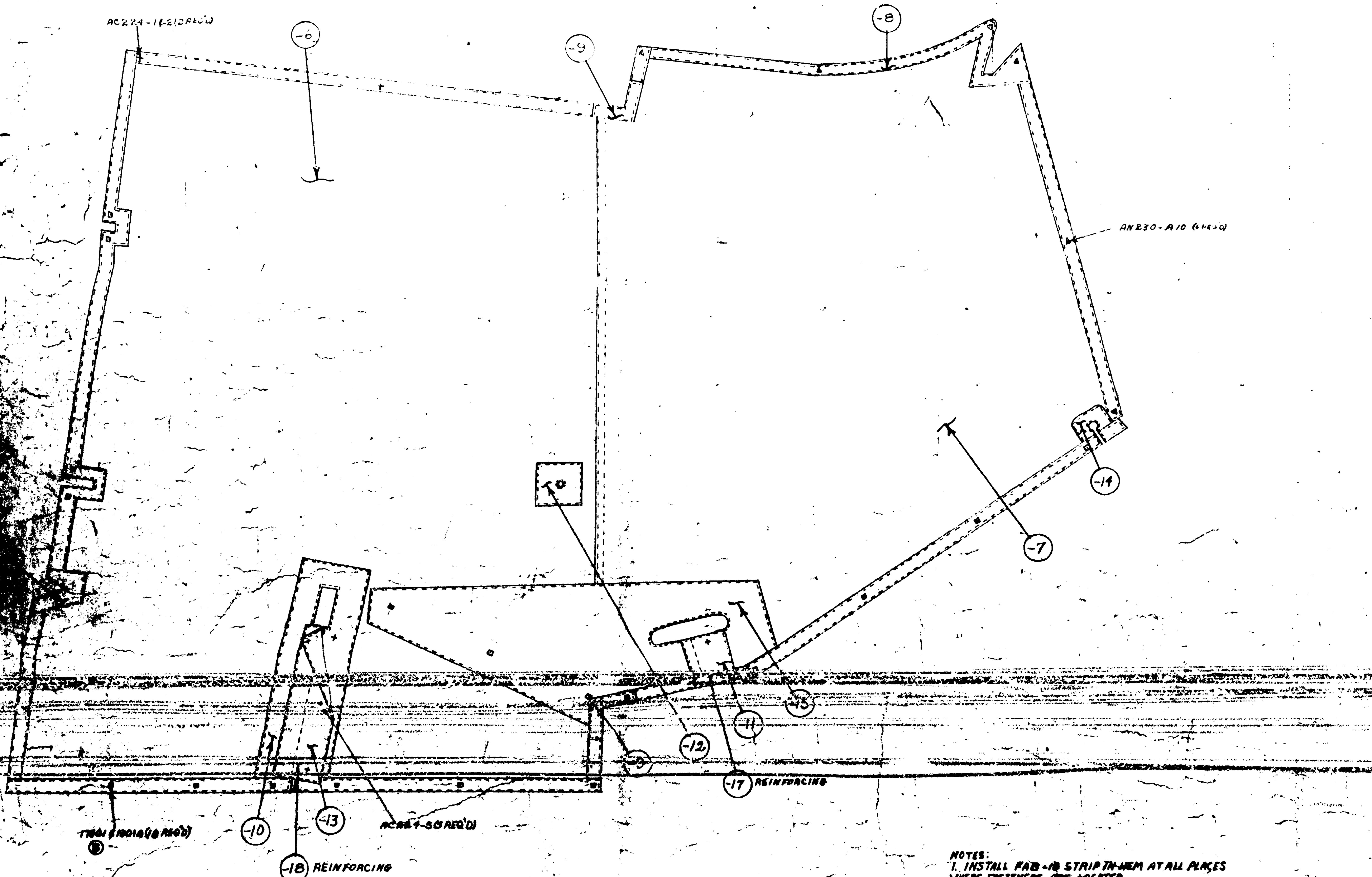
NAME CURTAIN - FURN - RADAR OPERATOR

DWG G 28F6951

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF

V. [illegible] 2-18-43

LET	ALTERATION	DATE	BY
A	REVISED & REDRAWN	12/21/42	STEWART
B	CAC FAS 37-50 #17101 SOCKET WAS CAC FAS 76 #1901. NO WT. CHG.	3-30-43	HUTCHINSON



NOTES:
1. INSTALL FAB-18 STRIP IN HEM AT ALL PLACES WHERE FASTENERS ARE LOCATED.
2. -19 IS SUFFICIENT QUANTITY OF CANVAS TO REINFORCE HEMS AS REQUIRED.
Ⓑ 3. C.A.C. "FAS-37-50173 MAY BE PURCHASED FROM UNITED CARR FASTENER CORP., SAN FRANCISCO, CALIF.

No A(S) 464
MCR 140

ASSY DASH No	MODEL	NEXT ASSY.	REQ.
	PBY-5A	28F6945	1
	PBY-5	28F6945	1

REQUIREMENTS PER AIRPLANE

REPLACES 28F6959 OF 10/2/42 — CALC. WT.
REPLACED BY — TEST. WT.
SCALE: NO SCALE
STAMP PART NUMBER WHERE SHOWN

PART No	STOCK	MATERIAL	SPEC.	REQ. -0
C.A.C. FAS 37-50 #17101 SOCKET				18
C.A.C. FAS 7- 7901A CLINCH PLATE				18
AN230-A10 GROMMET & WASHER				6
AC224-2 SOCKET				2
AC224-1 BUTTON				2
AC224-5				3
-19	3/4 X 130	FAB-18		SEE NOTE
-18	4 X 9	FAB-18		1
-17	4 X 4	FAB-7B		1
-16	3 X 3 1/2	BLACK SATEEN FAB-60		1
-15	4 X 12	↑		1
-14	4 X 5			1
-13	9 X 7			1
-12	4 X 4			1
-11	4 X 7			1
-10	14 X 6			1
-9	6 X 6			1
-8	7 X 17			1
-7	40 X 25	↓		1
-6	26 X 42	BLACK SATEEN FAB-60		1

PARTS LIST PER ASSY.

A C		
NAVY	—	—
HEAT TREAT	FINISH	

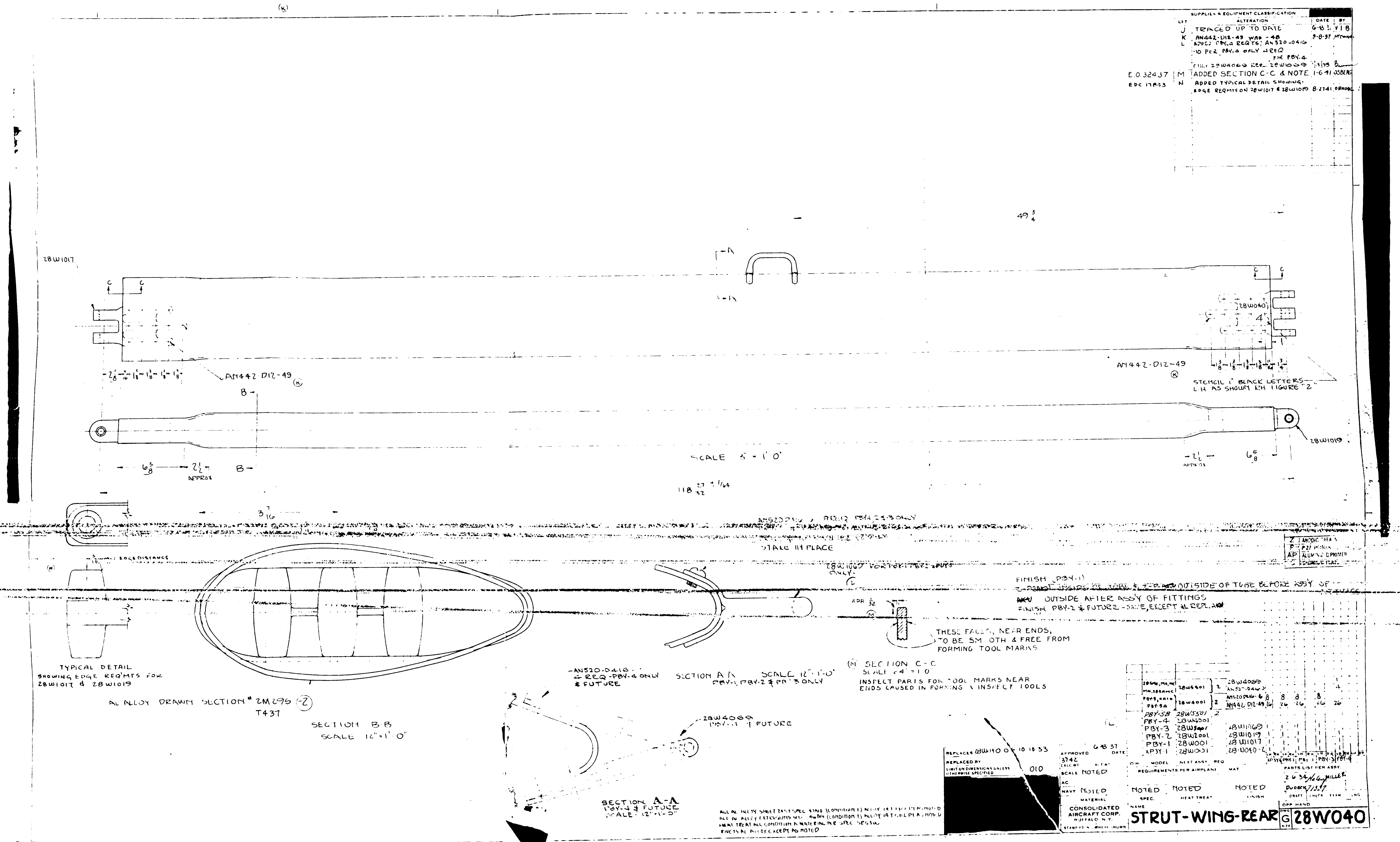
DRAFT / CHECK / STRUCT. / MAT. / APPROV. / ENG.

NAME: PANEL - FURN - RADAR OPERATOR'S - CURTAIN

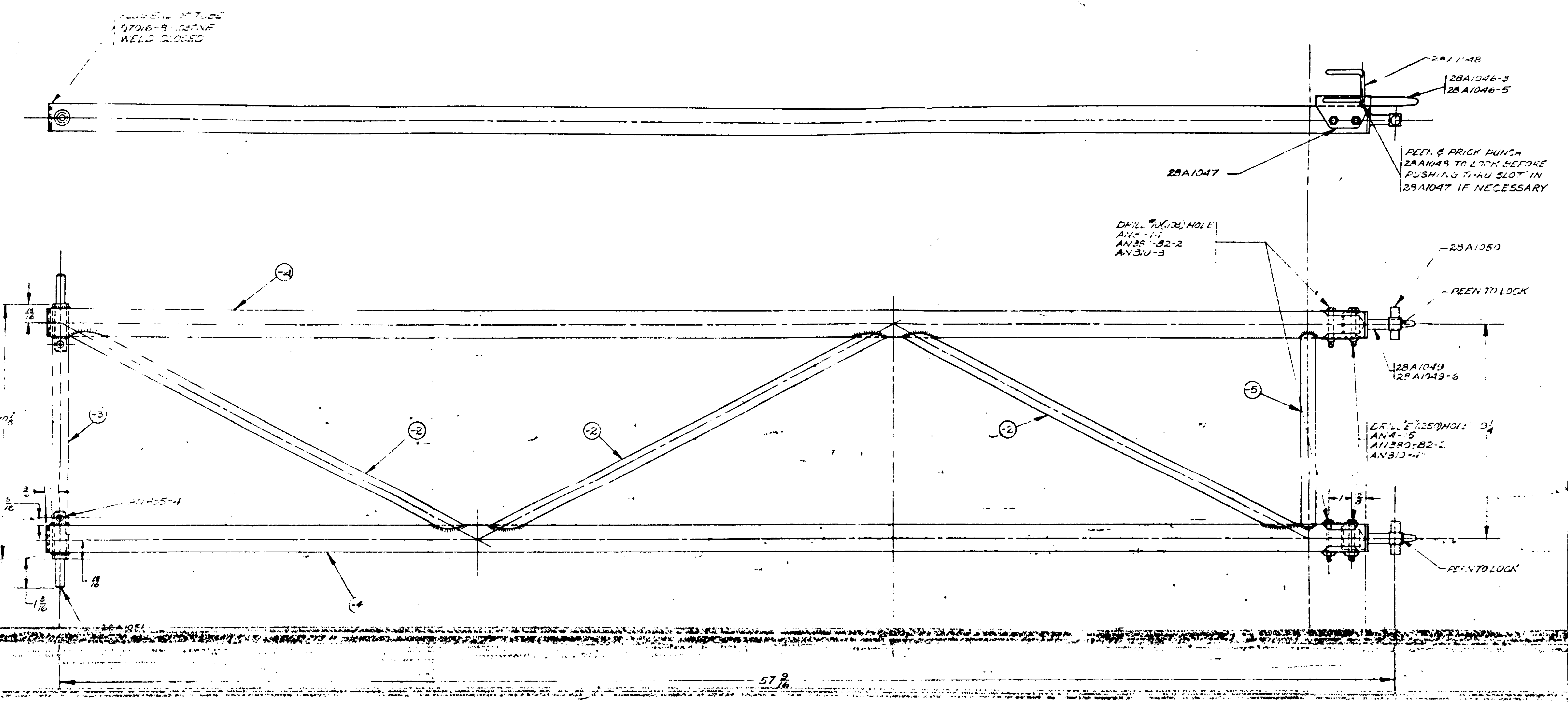
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SIZE G — DWG 28F6959

APPROVED FOR TOOLING BY V. Brown 2-18-43



SUPPLIES & EQUIPMENT CLASSIFICATION
J TRACED UP TO DATE
K AN442-D12-49 WAS -48
ADDED SECTION C-C & NOTE
ADDED TYPICAL DETAIL SHOWING EDGE REQ'MTS ON 28W1017 & 28W1019
E.O.32437
28W1017
AN442-D12-49
28W040
STENCIL 1" BLACK LETTERS L.H AS SHOWN RH FIGURE "2"
28W1019
SCALE 3"=1'0"
APPROX
TYPICAL DETAIL SHOWING EDGE REQ'MTS FOR 28W1017 & 28W1019
AL ALLOY DRAWN SECTION # 2M296 -2 T437
SECTION B-B SCALE 12"=1'0"
AN520-0416 - 4 REQ - PBY-4 ONLY & FUTURE
SECTION A-A SCALE 12"=1'0" PBY-1, PBY-2 & PBY-3 ONLY
SECTION A-A PBY-4 & FUTURE SCALE 12"=1'0"
28W4069 PBY-4 & FUTURE
SECTION C-C SCALE 24"=1'0
INSPECT PARTS FOR TOOL MARKS NEAR ENDS CAUSED IN FORMING & INSPECT TOOLS
THESE FACES, NEAR ENDS, TO BE SMOOTH & FREE FROM FORMING TOOL MARKS
FINISH PBY-1
OUTSIDE AFTER ASS'Y OF FITTINGS
FINISH PBY-2 & FUTURE - SAME, EXCEPT AL REPLACE
STAKE IN PLACE
PBY-5B 28W5501
PBY-4 28W4501
PBY-3 28W3001
PBY-2 28W2001
PBY-1 28W001
XP3Y-1 28W001
28W4069
28W1019
28W1017
28W040
PARTS LIST PER ASSY
REQUIREMENTS PER AIRPLANE
SCALE NOTED
NOTED
CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.
STRUT-WING-REAR
G 28W040



NOTES

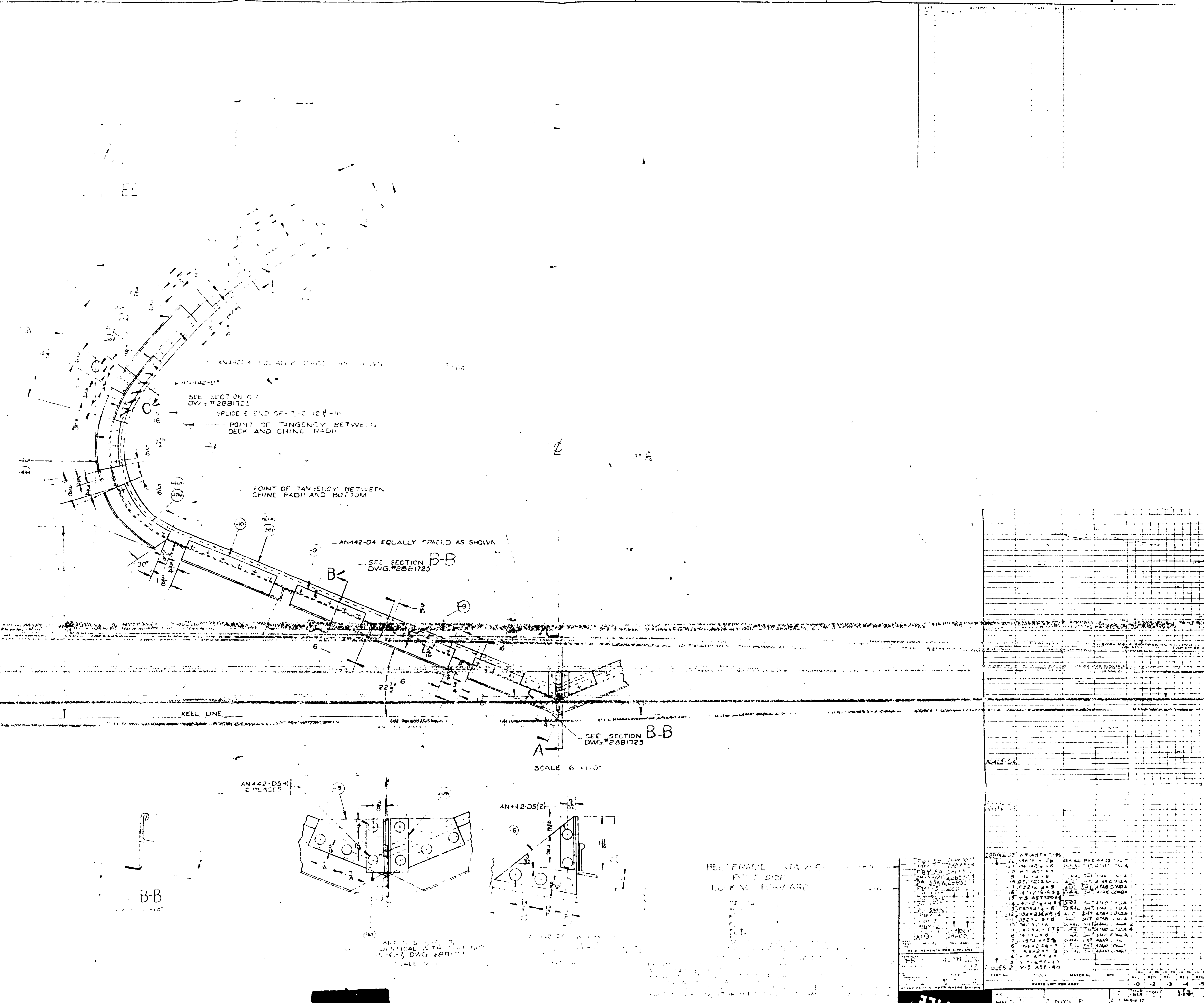
HANGER ARM BOMB LOADING PLATFORM REAR	
NAVY	NONE
FINISH	NOTED
DWG. NO.	J 28A1060

TRACED

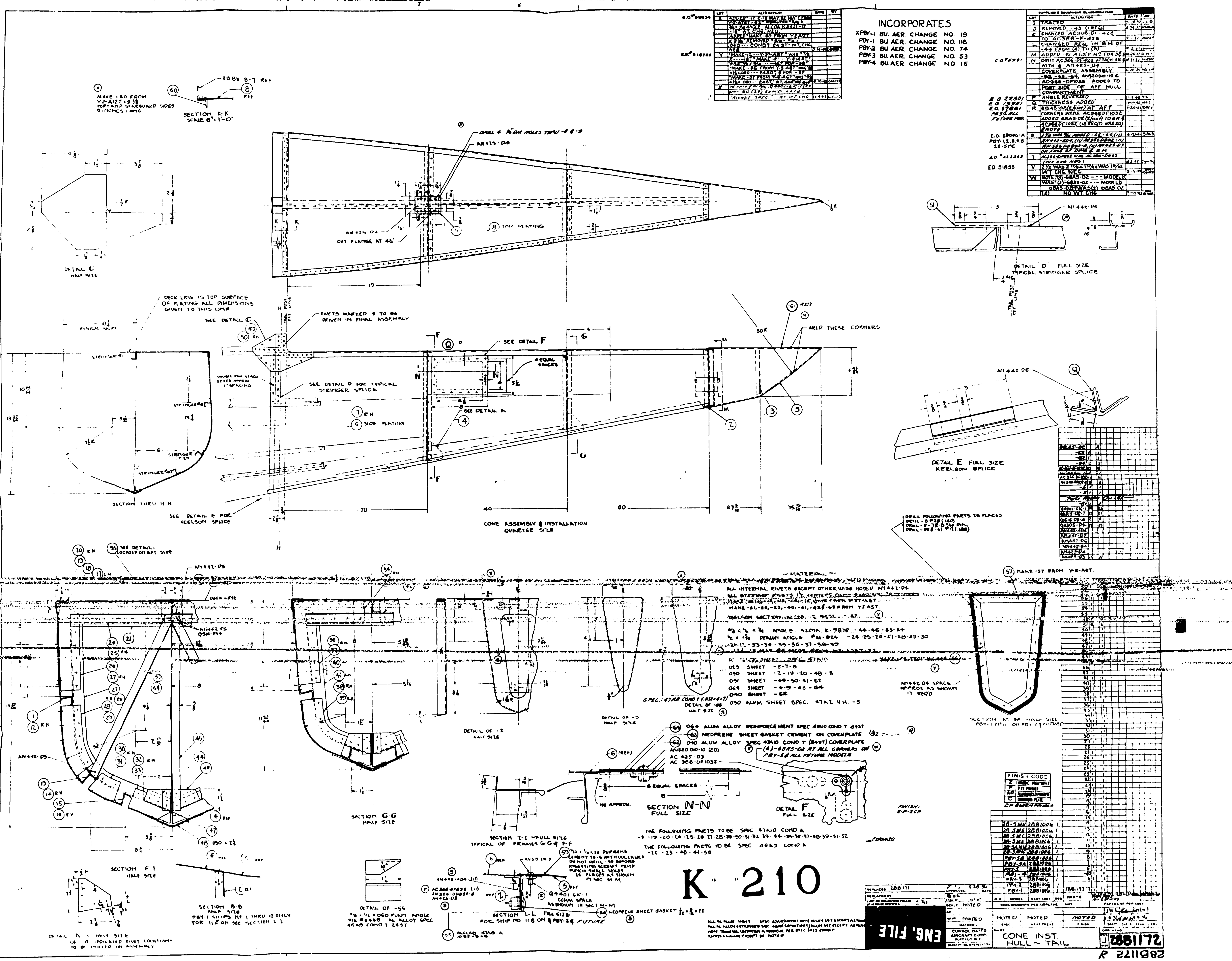
ENG. FILE

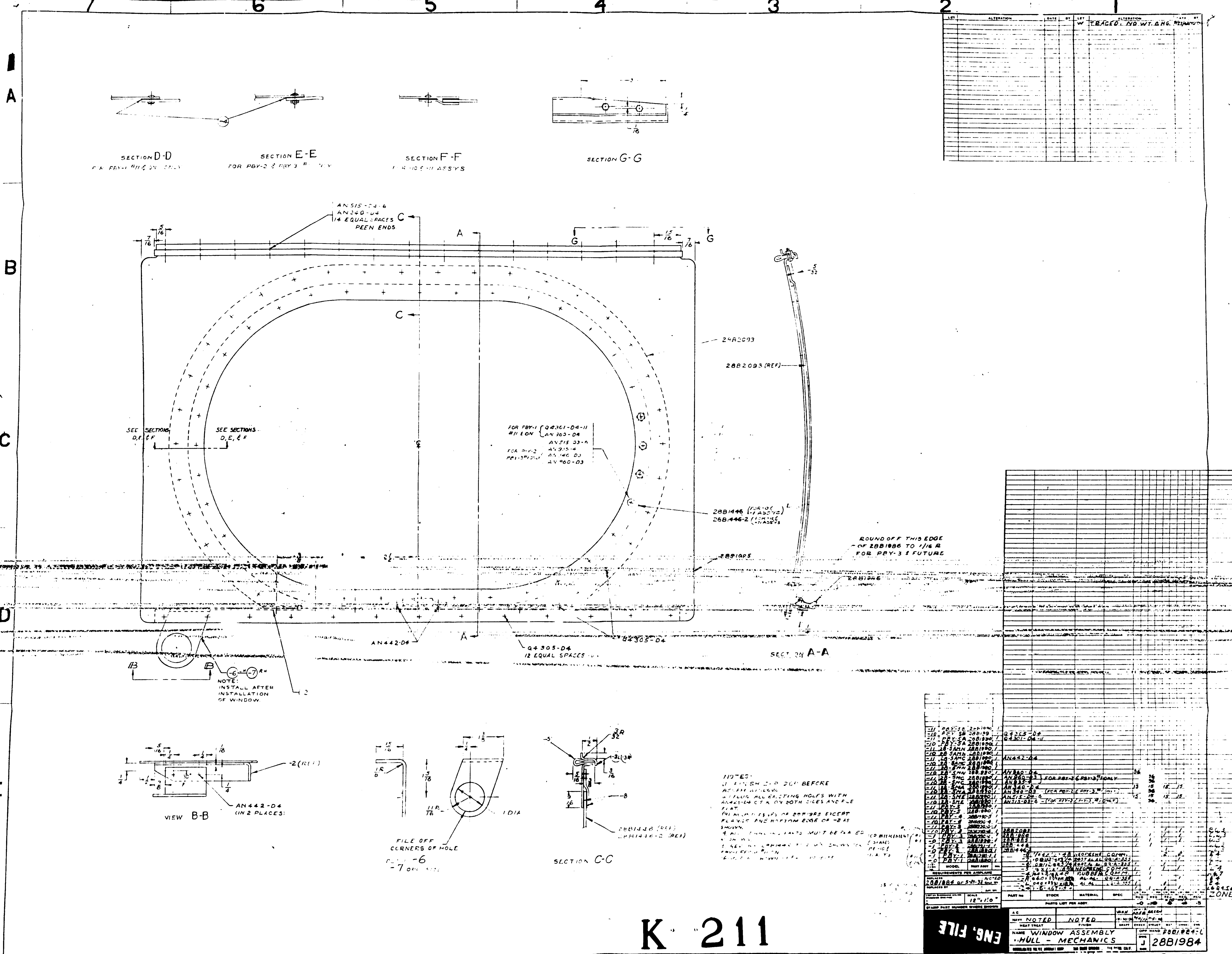
K 208

28A1060

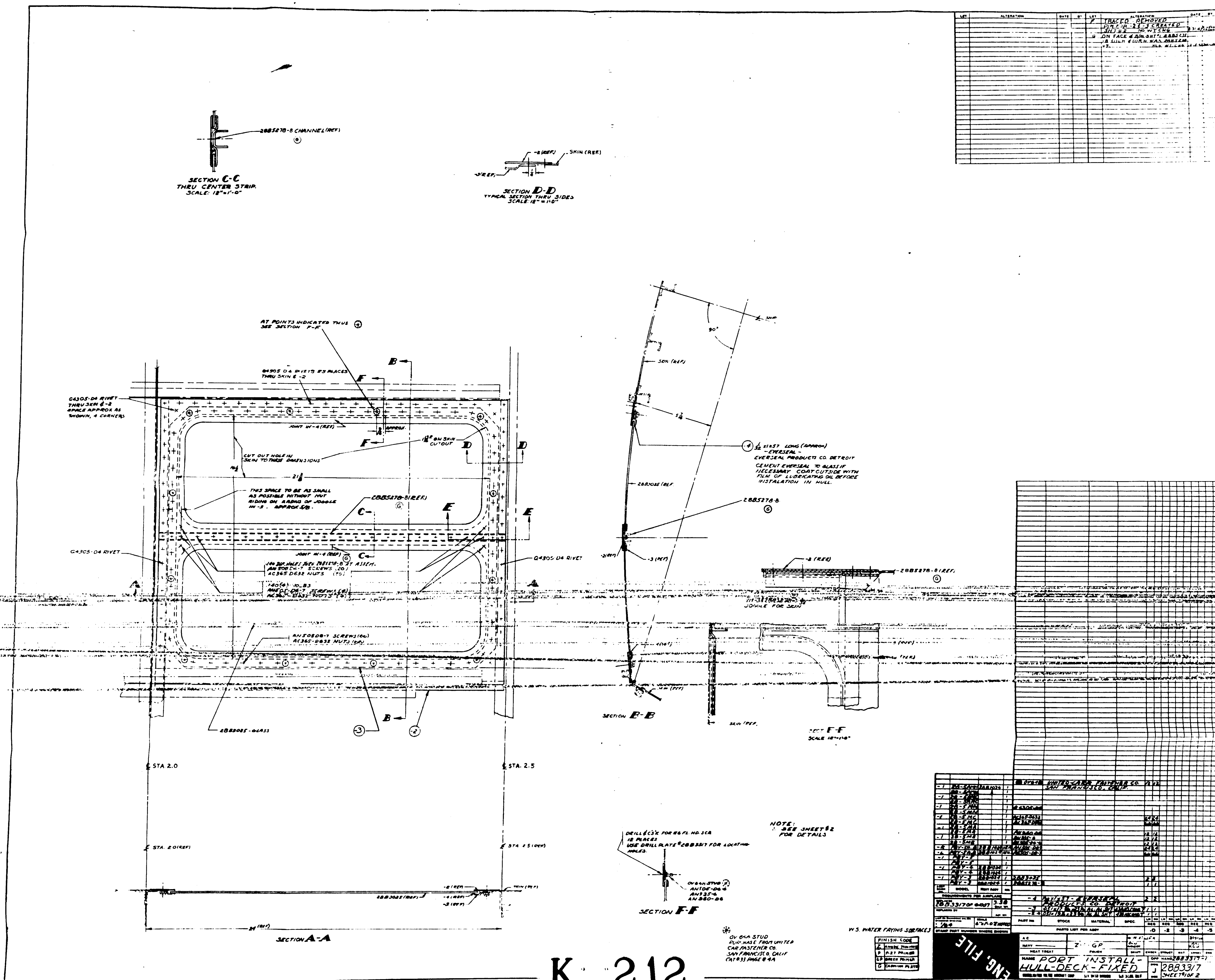

AN442-D5
SEE SECTION C-C
DWG. #28B1725
POINT OF TANGENCY BETWEEN
DECK AND CHINE RADII
POINT OF TANGENCY BETWEEN
CHINE RADII AND BOTTOM
AN442-D4 EQUALLY SPACED AS SHOWN
SEE SECTION B-B
DWG. #28B1725
KEEL LINE
SEE SECTION B-B
DWG. #28B1725
SCALE
AN442-D5(4)
2 PLACES
AN442-D5(2)
B-B
ENG. FILE
28B866

K 209

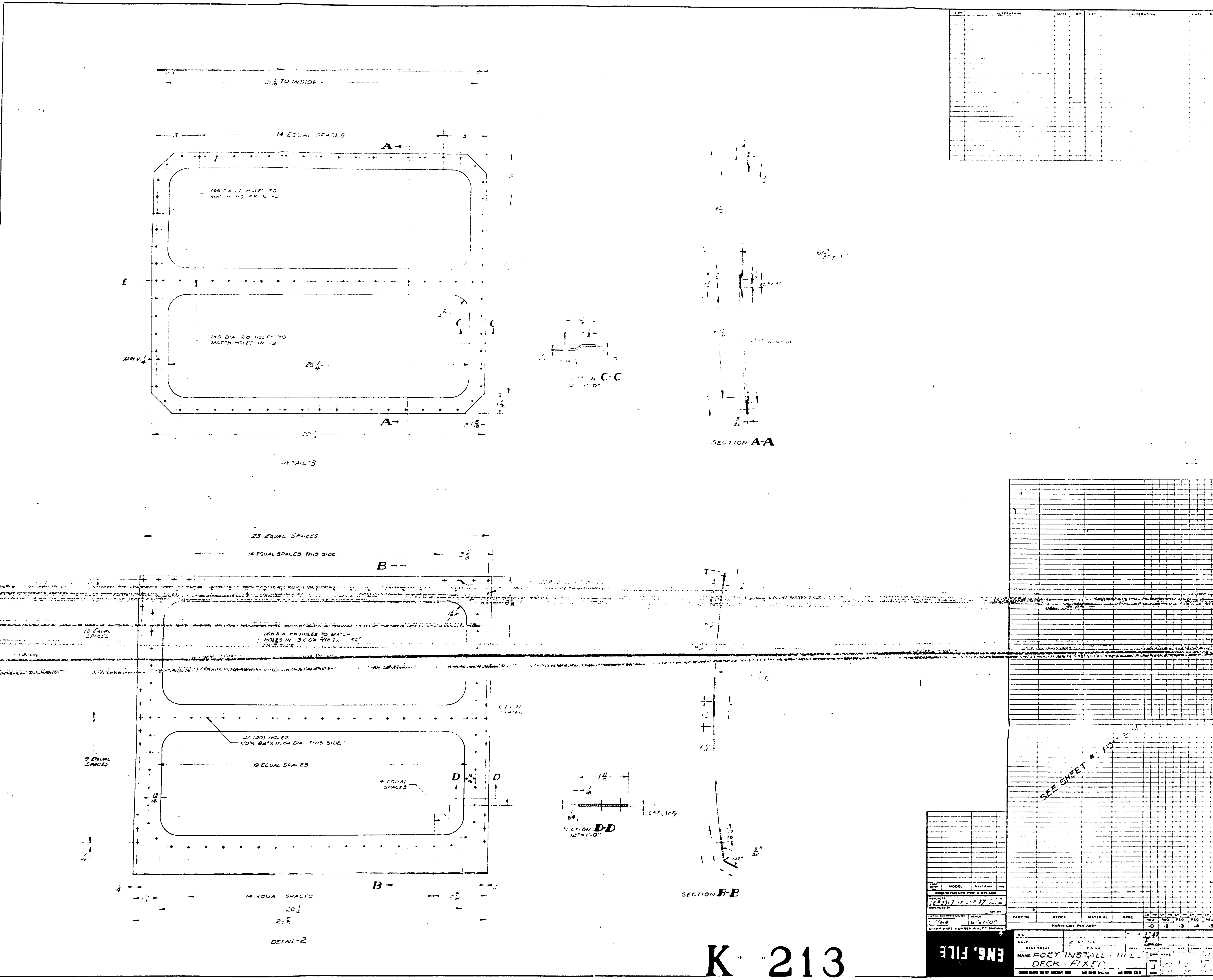

INCORPORATES
XPBY-1 BU. AER. CHANGE NO. 19
PBY-1 BU. AER. CHANGE NO. 116
PBY-2 BU. AER. CHANGE NO. 74
PBY-3 BU. AER. CHANGE NO. 53
PBY-4 BU. AER. CHANGE NO. 15
CONE ASSEMBLY & INSTALLATION QUARTER SIZE
SECTION THRU H H
DETAIL C HALF SIZE
DETAIL "D" FULL SIZE TYPICAL STRINGER SPLICE
DETAIL E FULL SIZE KEELSON SPLICE
SECTION N-N FULL SIZE
DETAIL F FULL SIZE
SECTION G G HALF SIZE
SECTION M M HALF SIZE
SECTION F F HALF SIZE
SECTION B-B HALF SIZE
DETAIL A ~ HALF SIZE
DETAIL OF -2 HALF SIZE
DETAIL OF -3 HALF SIZE
DETAIL OF -55
SECTION I-I FULL SIZE TYPICAL OF FRAMES G-G & F-F
SECTION L-L FULL SIZE
— MATERIAL —
FINISH CODE
K 210
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
CONE INST HULL ~ TAIL
28B1172


SECTION D-D
SECTION E-E
SECTION F-F
SECTION G-G
AN515-D4-6
AN340-D4
14 EQUAL SPACES
PEEN ENDS
28B2093 (REF)
ROUND OFF THIS EDGE OF 28B1986 TO 1/16 R FOR PBY-3 & FUTURE
AN442-D4
Q4305-D4
12 EQUAL SPACES
SECTION A-A
NOTE: INSTALL AFTER INSTALLATION OF WINDOW
VIEW B-B
AN442-D4 (IN 2 PLACES)
FILE OFF CORNERS OF HOLE
SECTION C-C
28B1446 (REF)
28B1446-2 (REF)
NOTED
WINDOW ASSEMBLY
HULL - MECHANICS
28B1984
ENG. FILE

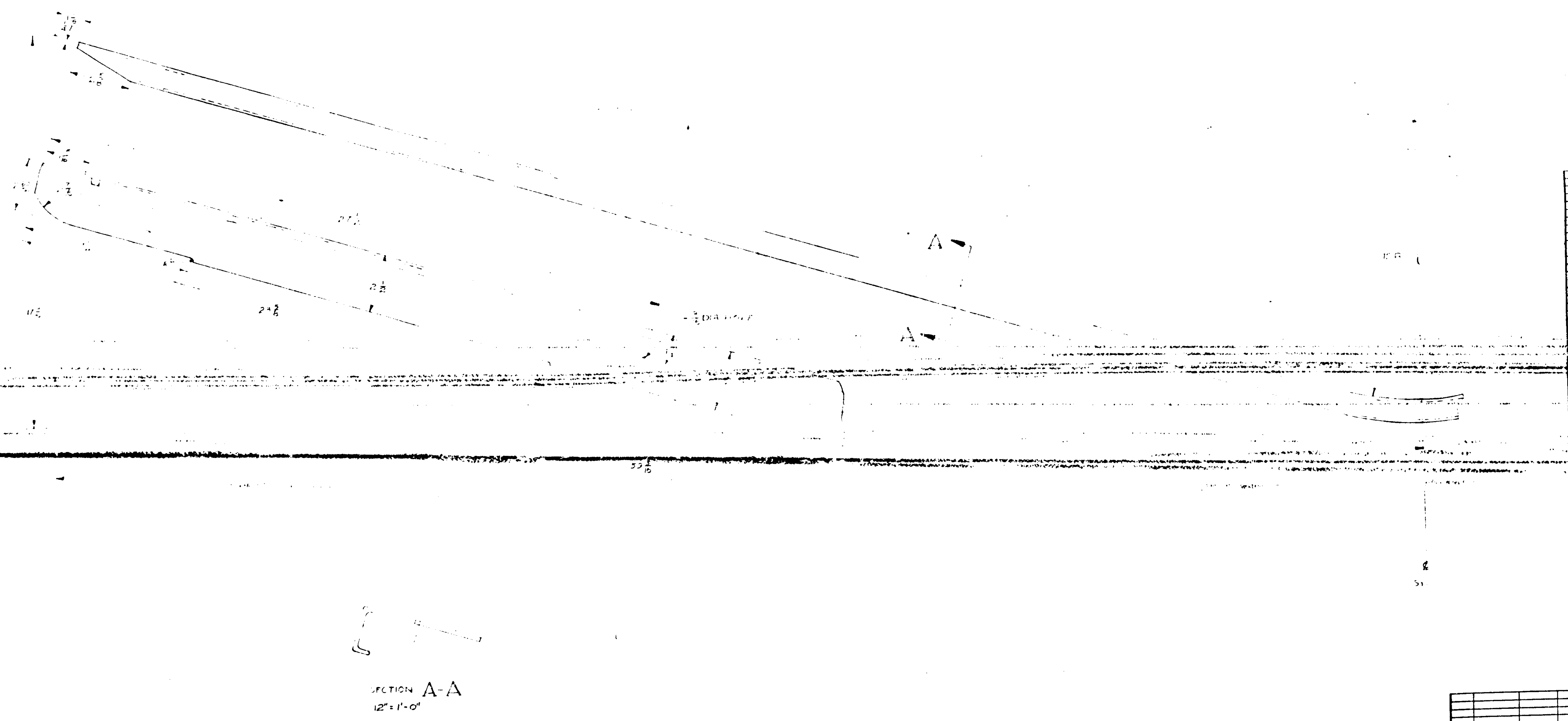
K 211


SECTION C-C
THRU CENTER STRIP.
SCALE: 12"=1'-0"
2BB5278-8 CHANNEL (REF)
SKIN (REF)
SECTION D-D
TYPICAL SECTION THRU SIDES
SCALE: 12" = 1'0"
AT POINTS INDICATED THUS SEE SECTION F-F
CUT OUT HOLE IN SKIN TO THESE DIMENSIONS
THIS SPACE TO BE AS SMALL AS POSSIBLE WITHOUT NUT RIDING ON RADIUS OF JOGGLE
2BB5278-8 (REF)
G4305-D4 RIVET
2BB3025-GLASS
SECTION B-B
EVERSEAL PRODUCTS CO. DETROIT
CEMENT EVERSEAL TO GLASS IF NECESSARY. COAT OUTSIDE WITH FILM OF LUBRICATING OIL BEFORE INSTALATION IN HULL.
STA 2.0
STA. 2.5
SECTION A-A
NOTE: SEE SHEET #2 FOR DETAILS
SECTION F-F
W.S. WATER FAYING SURFACES
FINISH CODE
PARTS LIST FOR ASSY
ENG. FILE
NAME PORT INSTALL-HULL-DECK-FIXED
2BB3317
SHEET #1 OF 2
R 2BB3317

K 212



TO INSIDE
14 EQUAL SPACES
A
DETAIL-3
SECTION C-C
SECTION A-A
23 EQUAL SPACES
14 EQUAL SPACES THIS SIDE
B
10 EQUAL SPACES
40 (20) HOLES
9 EQUAL SPACES
19 EQUAL SPACES
4 EQUAL SPACES
D
SECTION D-D
12"=1'-0"
SECTION B-B
14 EQUAL SPACES
DETAIL-2
SEE SHEET #1 FOR
REQUIREMENTS PER AIRPLANE
PART NO
STOCK
MATERIAL
SPEC
PARTS LIST PER ASSY
ENG. FILE
K 213



K 214

APPROVED FOR TOOLING BY

ENG. FILE

MODEL	NEXT ASSY
REQUIREMENTS PER AIRPLANE	
REPLACES 28B1502-6	CALC WT
REPLACED BY	ACT WT
± 1/32	SCALE 6" = 1'-0"
STAMP PART NUMBER WHERE SHOWN	

PART No.	STOCK	MATERIAL	SPEC.	REQ -0	REQ -2	REQ -3	REQ -4	REQ -5
PARTS LIST PER ASSY								

A C

NAVY

HEAT TREAT

FINISH

DRAFT | CHECK | STRUCT | MAT | APPROV | ENG

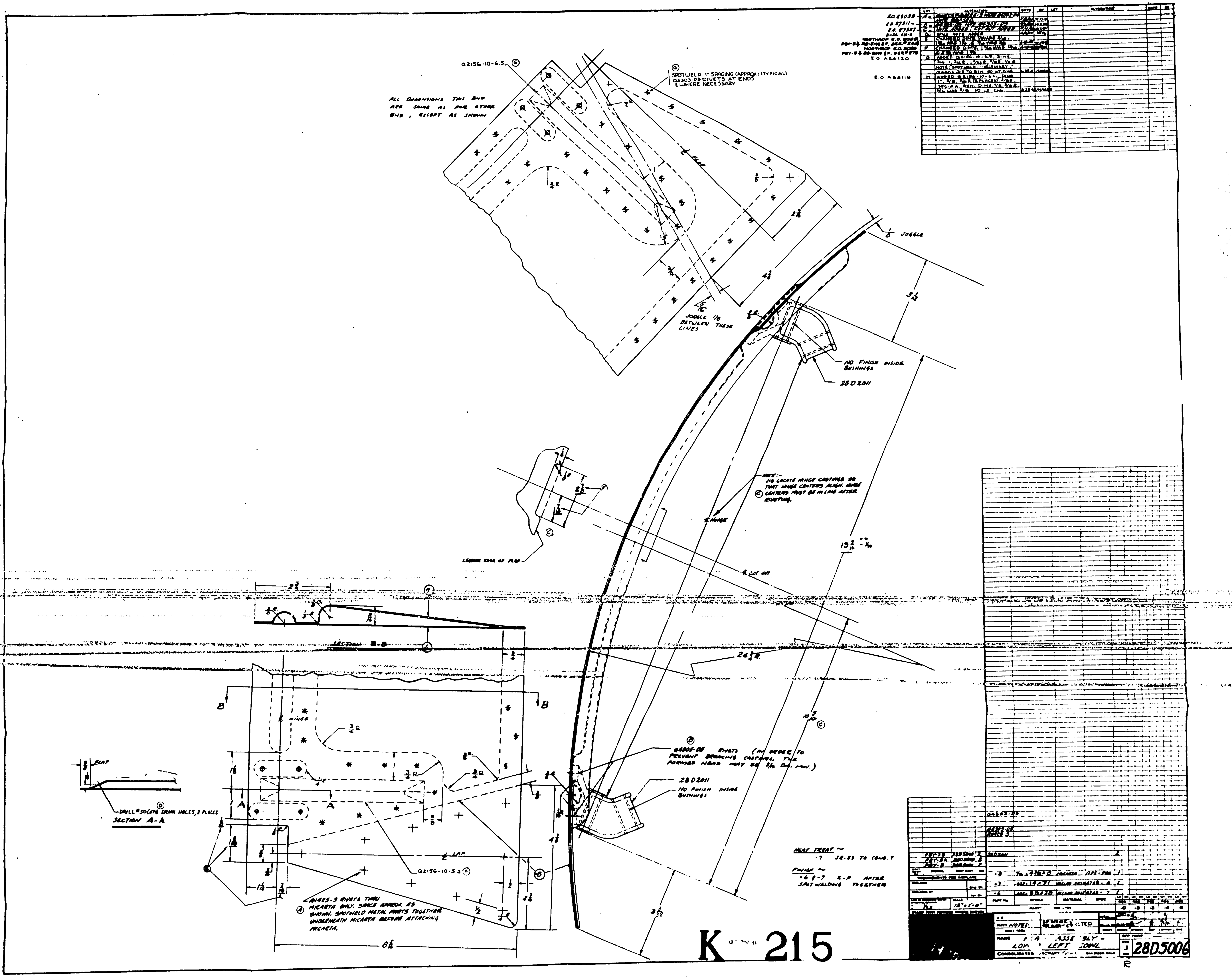
NAME ANGLE - HULL BULKHEAD STA. 5.0 LOWER AFT

OPP HAND

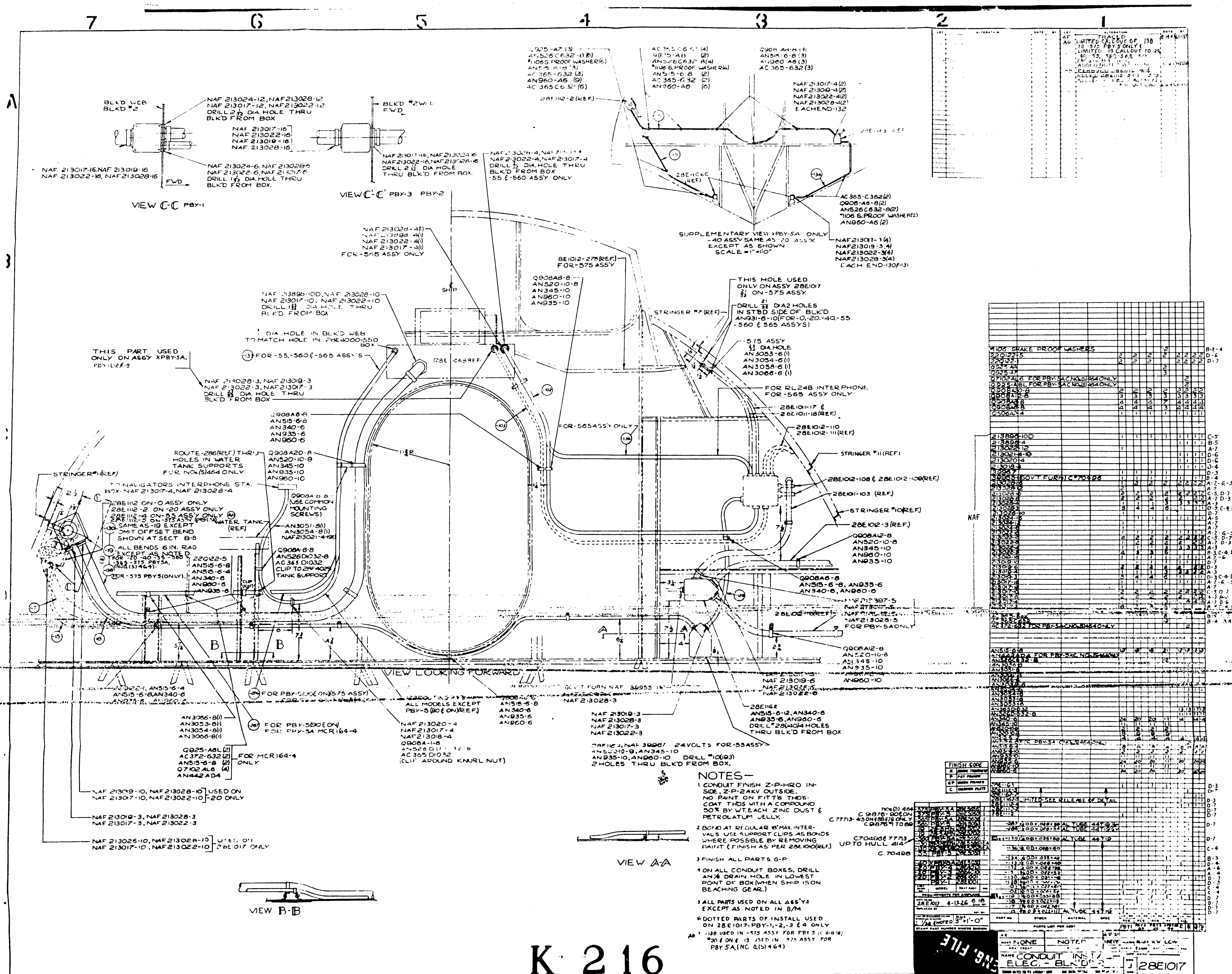
J 28B5711

CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO, CALIF.

28B5711

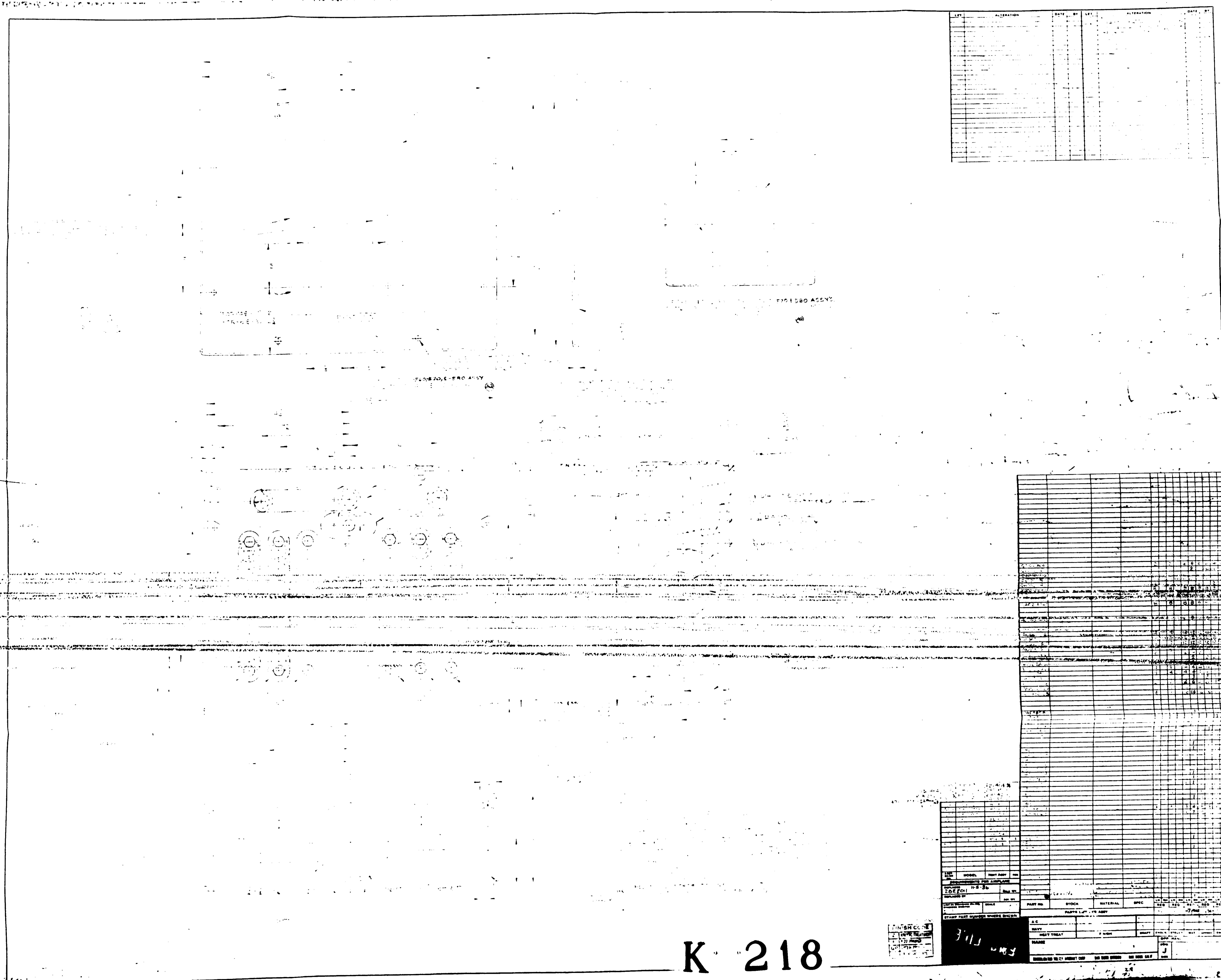


ALL DIMENSIONS THIS END ARE SAME AS FOR OTHER END, EXCEPT AS SHOWN
SPOTWELD 1" SPACING (APPROX) (TYPICAL) Q4303-D3 RIVETS AT ENDS & WHERE NECESSARY
JOGGLE 1/8 BETWEEN THESE LINES
NO FINISH INSIDE BUSHINGS
28D2011
SECTION B-B
SECTION A-A
LEADING EDGE OF FLAP
HEAT TREAT ~
FINISH ~
K 215
28D5006

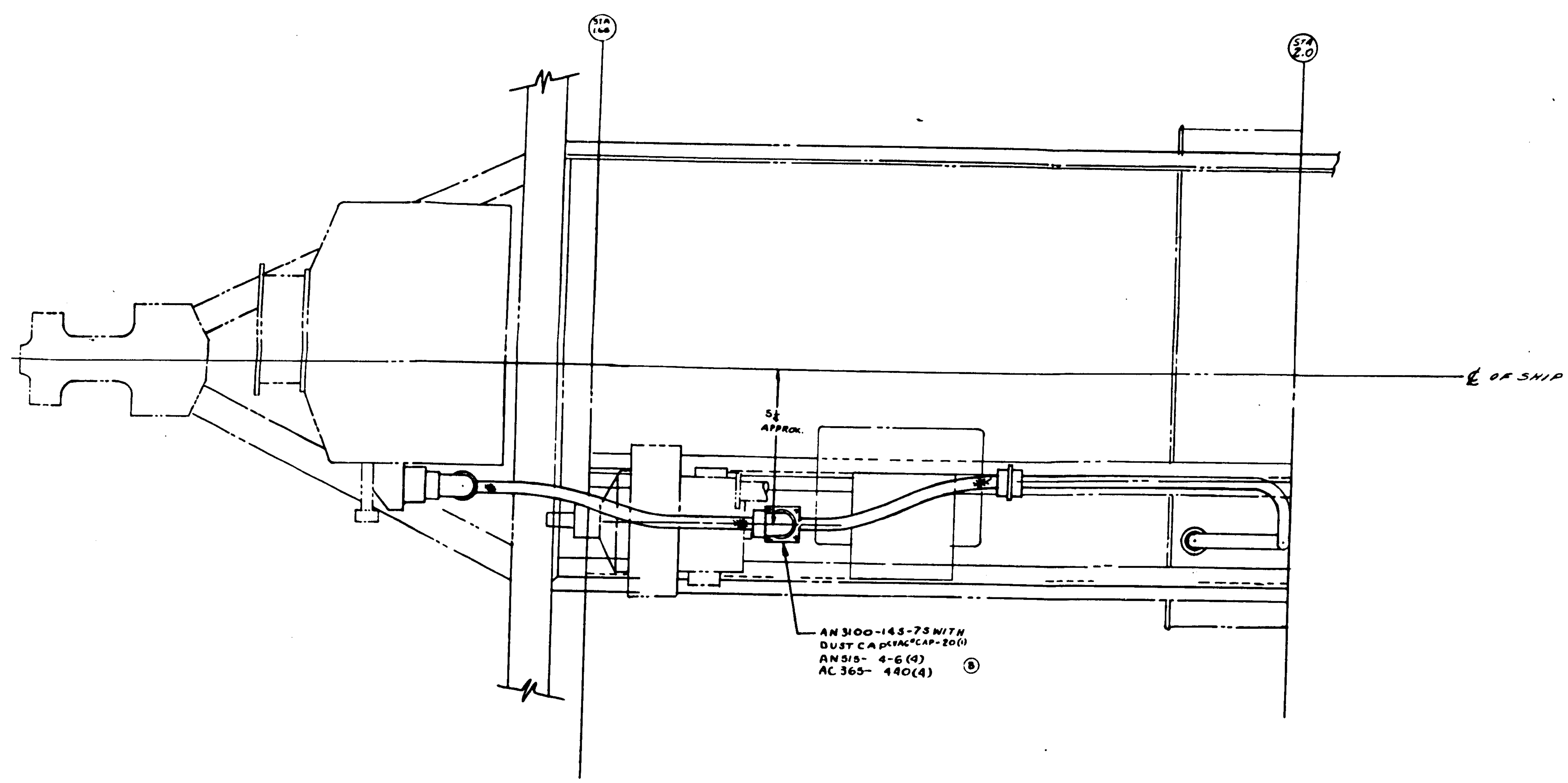


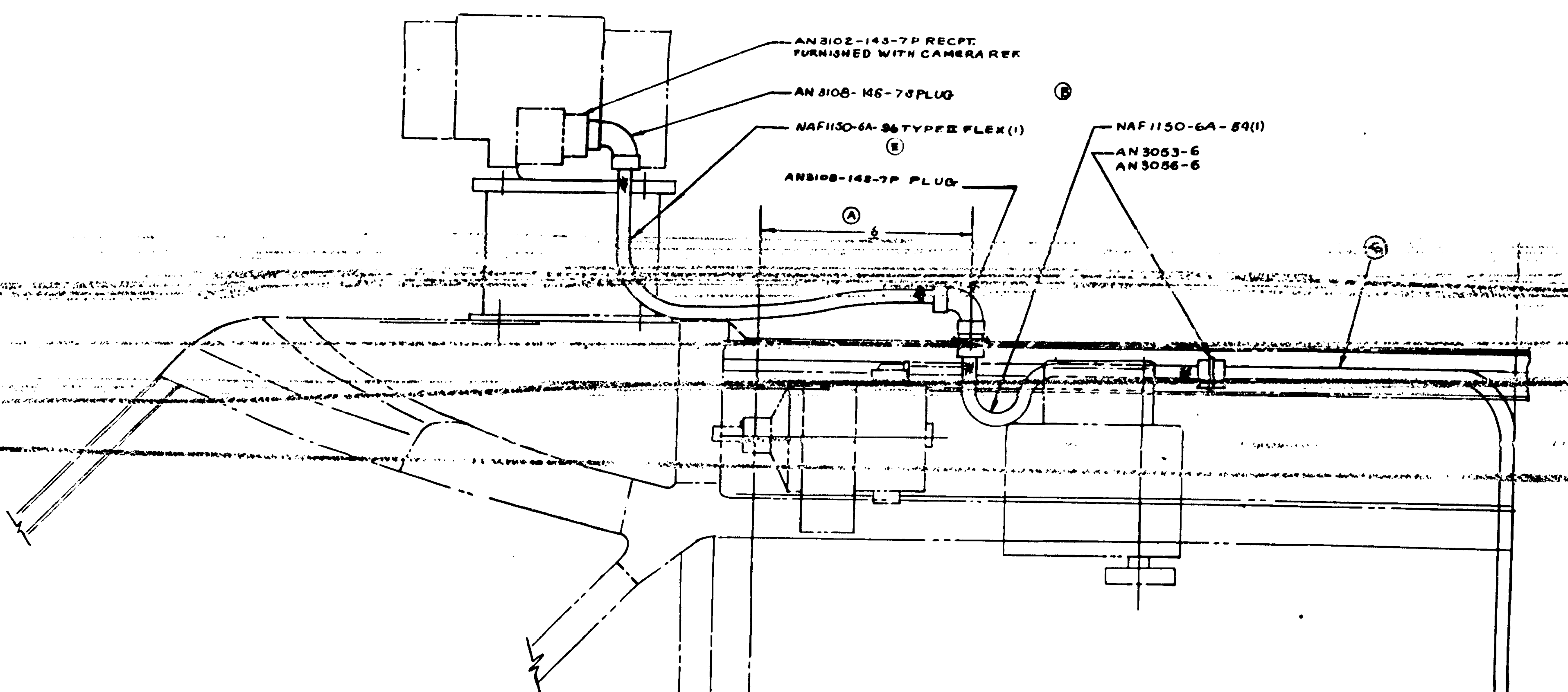
VIEW C-C PBY-1
VIEW C'-C' PBY-3 PBY-2
SUPPLEMENTARY VIEW XPBY-5A ONLY -40 ASSY SAME AS -20 ASSY EXCEPT AS SHOWN SCALE = 1" = 1'-0"
THIS PART USED ONLY ON ASSY XPBY-5A
STRINGER #7 (REF)
STRINGER #11 (REF)
STRINGER #10 (REF)
STRINGER #1 (REF)
FOR RL24B INTERPHONE FOR -565 ASSY ONLY
TO NAVIGATORS INTERPHONE STA. BOX-NAF 213017-4, NAF 213028-4
ALL BENDS 6 IN. RAD EXCEPT AS NOTED
VIEW LOOKING FORWARD
VIEW A-A
VIEW B-B
NOTES—
1 CONDUIT FINISH Z-P-HRO INSIDE, Z-P-2AKV OUTSIDE. NO PAINT ON FITT'S THDS. COAT THDS WITH A COMPOUND 50% BY WT. EACH ZINC DUST & PETROLATUM JELLY.
2 BOND AT REGULAR 18" MAX. INTERVALS. USE SUPPORT CLIPS AS BONDS WHERE POSSIBLE BY REMOVING PAINT & FINISH AS PER 28E1010 (REF.)
3 FINISH ALL PARTS G-P
4 ON ALL CONDUIT BOXES, DRILL AN 1/8 DRAIN HOLE IN LOWEST POINT OF BOX (WHEN SHIP IS ON BEACHING GEAR.)
5 ALL PARTS USED ON ALL ASS'YS EXCEPT AS NOTED IN B/M
6 DOTTED PARTS OF INSTALL USED ON 28E1017-PBY-1, -2, -3 & 4 ONLY
FINISH CODE
CONDUIT INST. — ELEC. - BLN'D
28E1017
K 216
R 28E1017

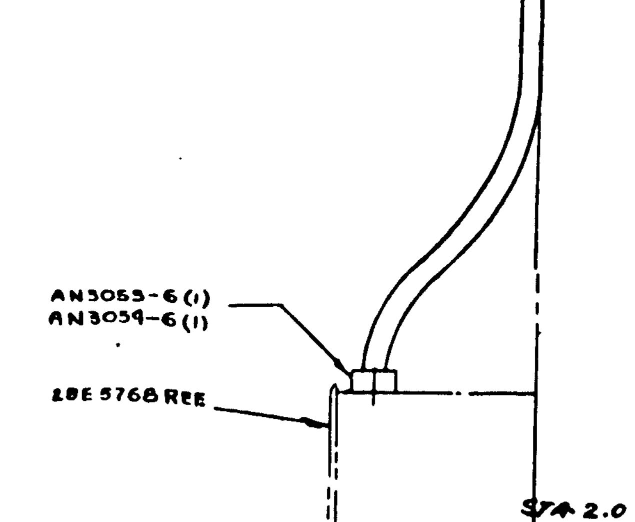
K 217



K 218







NOTES:
1. FINISH 1 PRIME & 1 PIGMENTED COAT TO MATCH ADJACENT SURFACE.
2. BOND IN ACCORDANCE WITH 28E4027.
3. CONDUIT & FLEX LENGTHS ARE APPROXIMATE, SHOP TO DETERMINE CORRECT LENGTHS ON FIRST INSTALLATION & NOTIFY ENGR. DEPT.
4. Q CLIPS ARE NOT SHOWN ON DRG., SHOP TO CLAMP CONDUIT AT SUITABLE INTERVALS IN SHIP ON FIRST INSTALLATION & NOTIFY ENGR. DEPT.

K 219

SEE NOTE #4

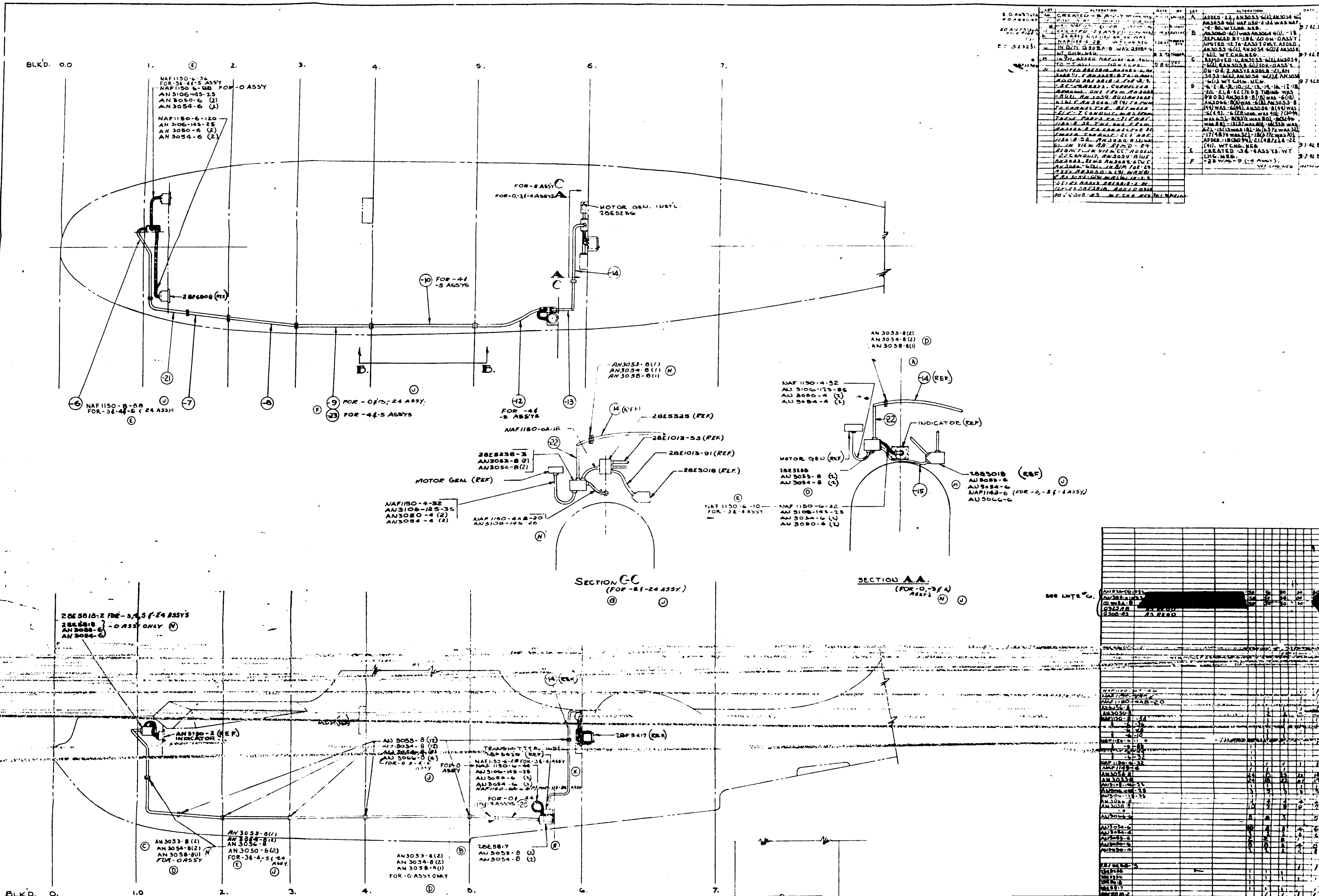
SCALE 6" = 1'-0"

HEAT TREAT: NONE
FINISH: SEE NOTE #1

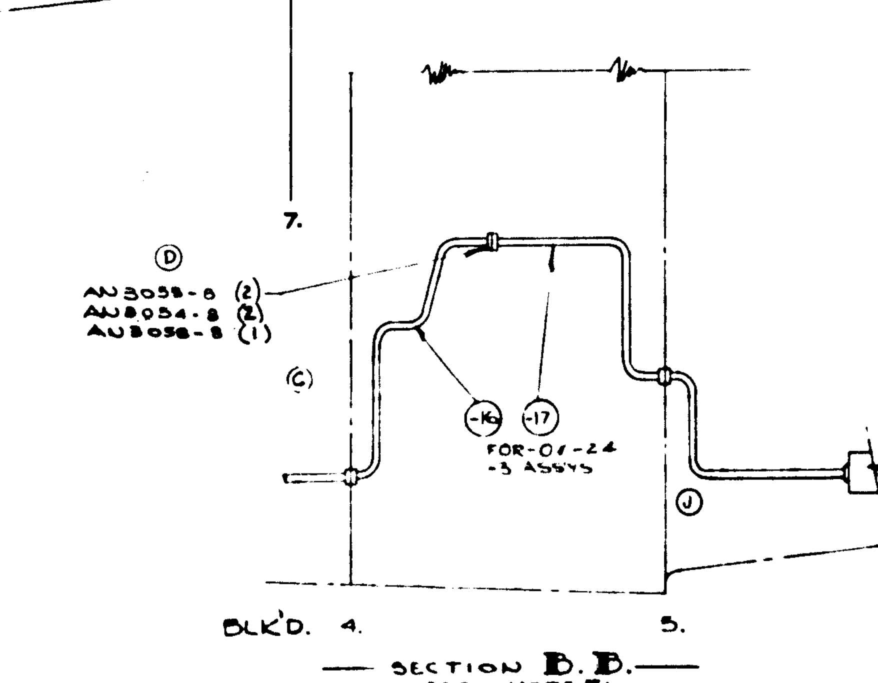
NAME: INSTALL-ELEC-TORPEDO TRAINING CAMERA F46

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

J 28E5239



NOTES:
1. SECTION B.B. IS THE CONDUIT RUN FOR PBY-5A SO AS TO CLEAR LANDING GEAR WHEEL WELL.
2. CONDUIT WALL THICKNESSES 3/8 O.D. WALL THICKNESS .022
3. BOND IN ACCORDANCE WITH 28E4027.
4. CONDUIT LENGTHS ARE APPROXIMATE, SHOP TO DETERMINE CORRECT LENGTHS ON FIRST INSTALLATION & NOTIFY ENGR.
5. FINISH: 1 PRIME & 1 PIGMENTED COAT TO MATCH ADJACENT SURFACES.
6. O CLIPS ARE NOT SHOWN ON DR'G. SHOP TO CLAMP CONDUIT AT SUITABLE INTERVALS IN SHIP ON FIRST INSTALLATION & NOTIFY ENGR.



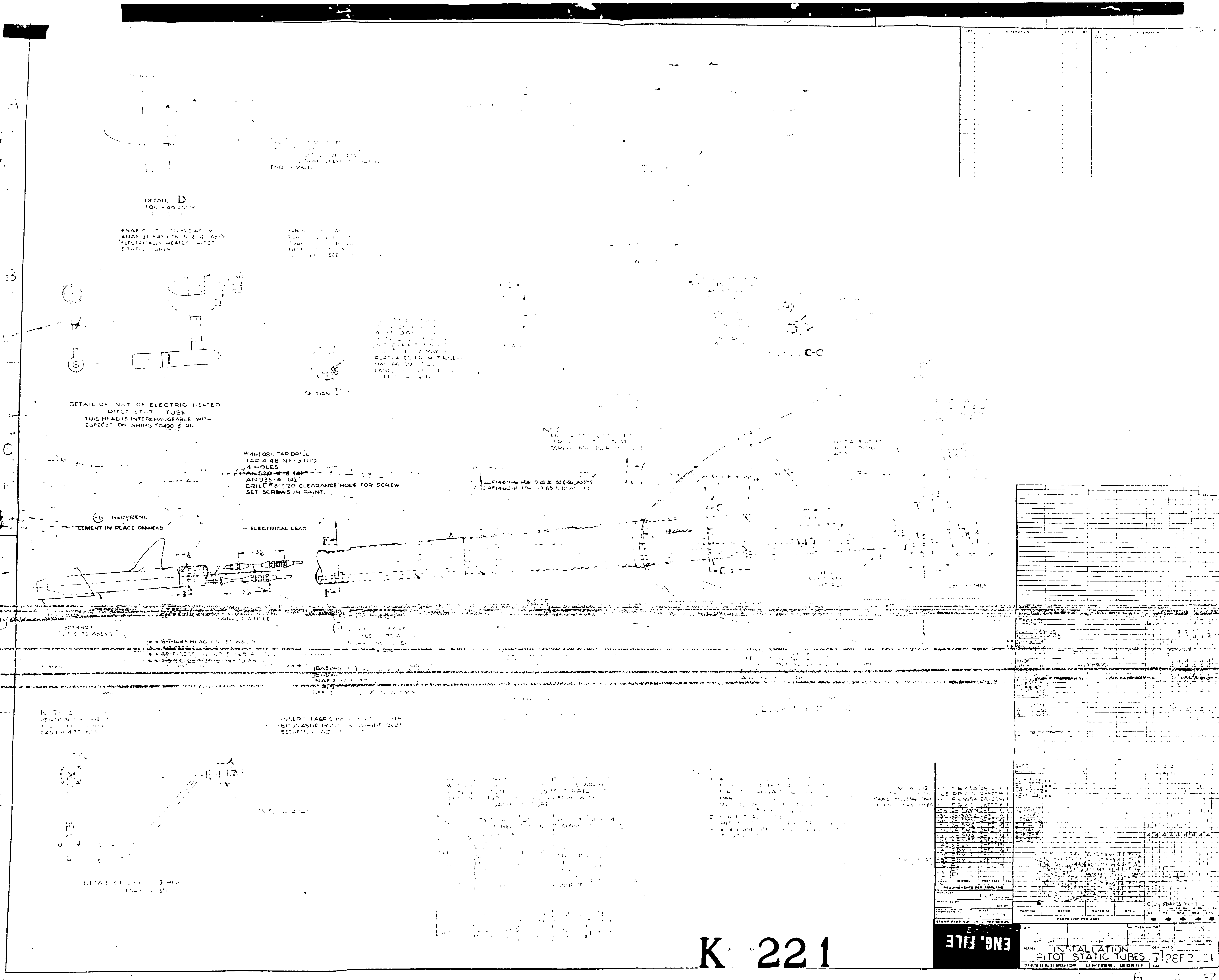
SECTION B.B.
SEE NOTE #1.

K 220

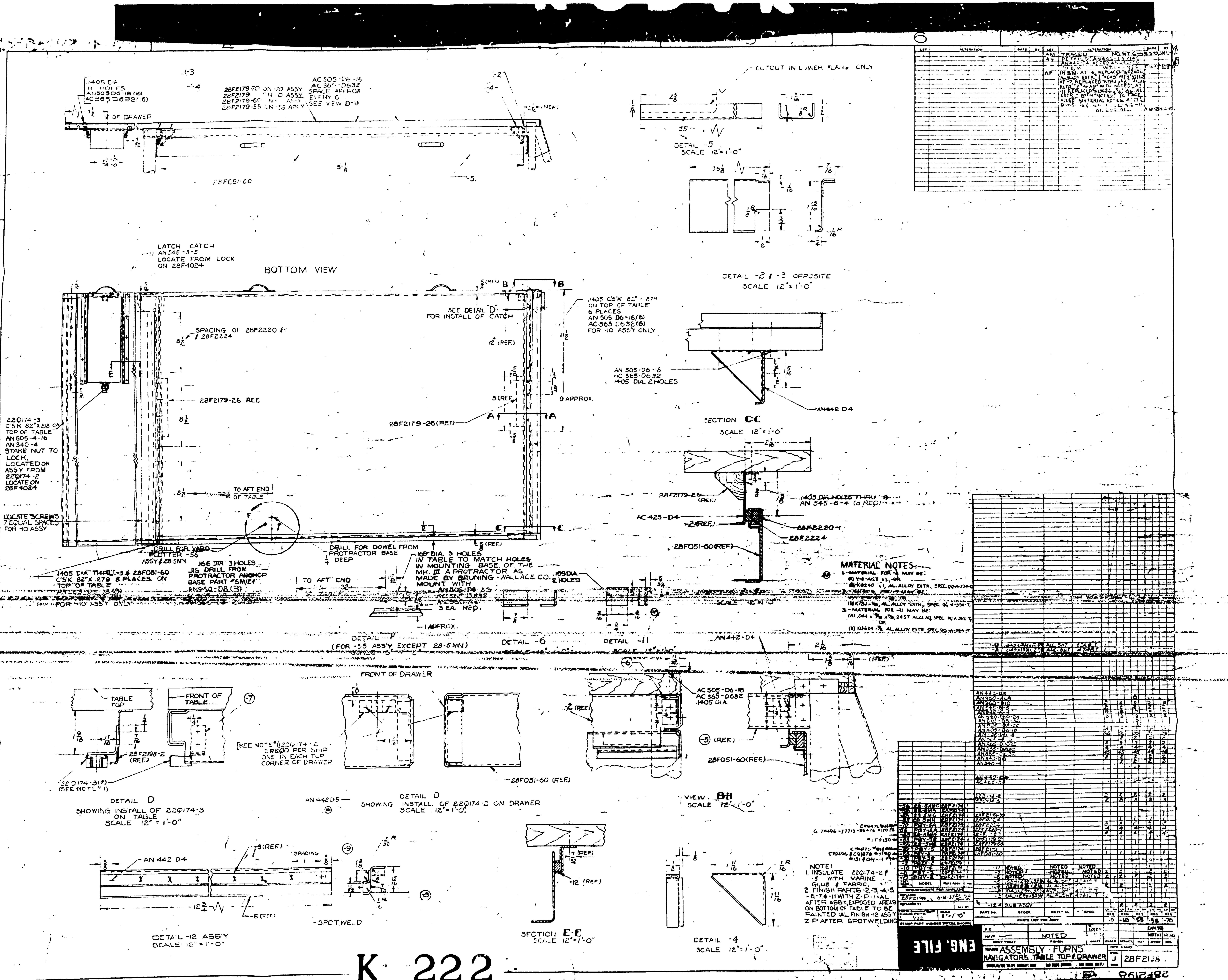
CONDUIT INSTALL.-ELEC.-REMOTE INDICATING COMPASS.

CONSOLIDATED AIRCRAFT CORP.

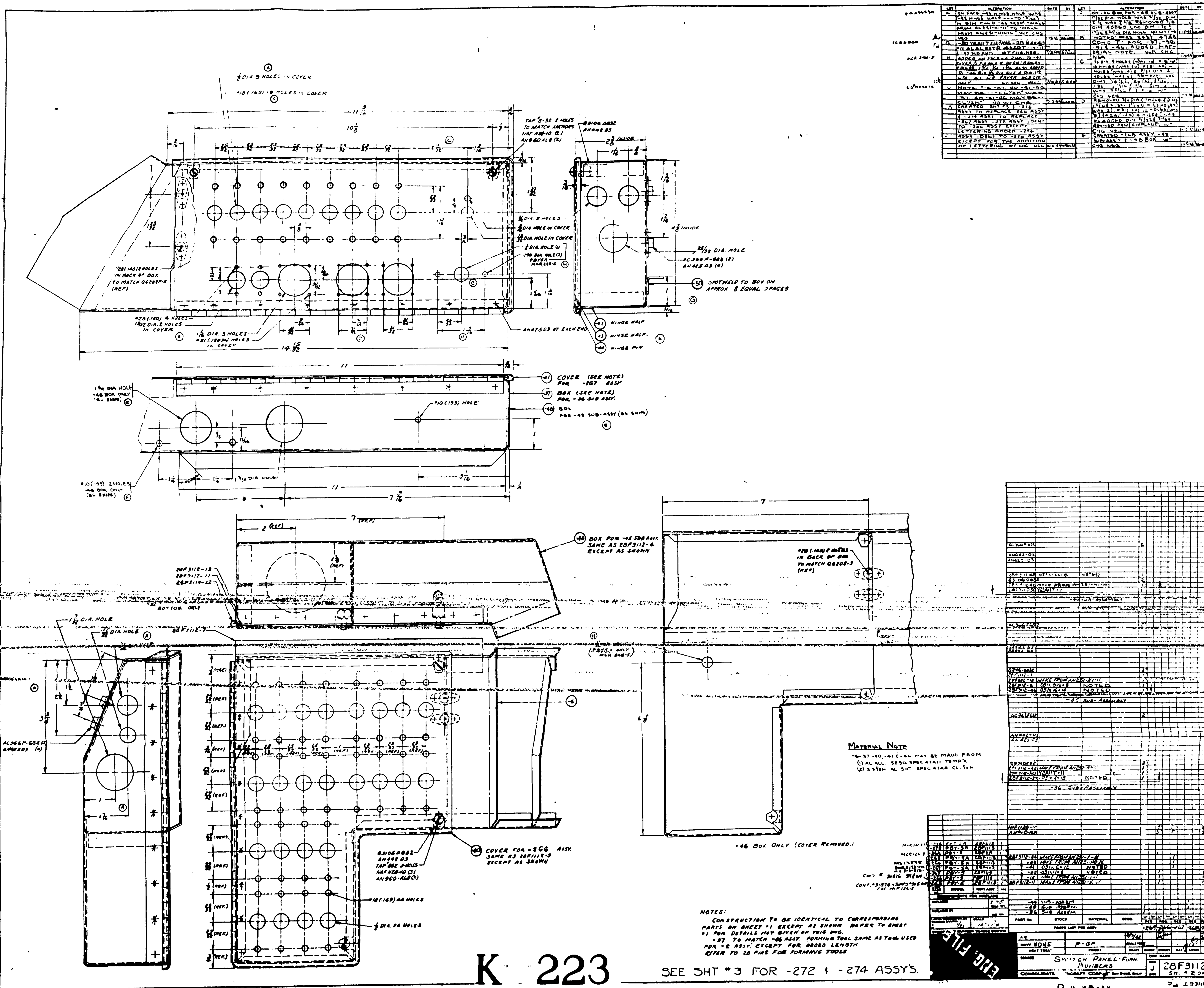
28E5814



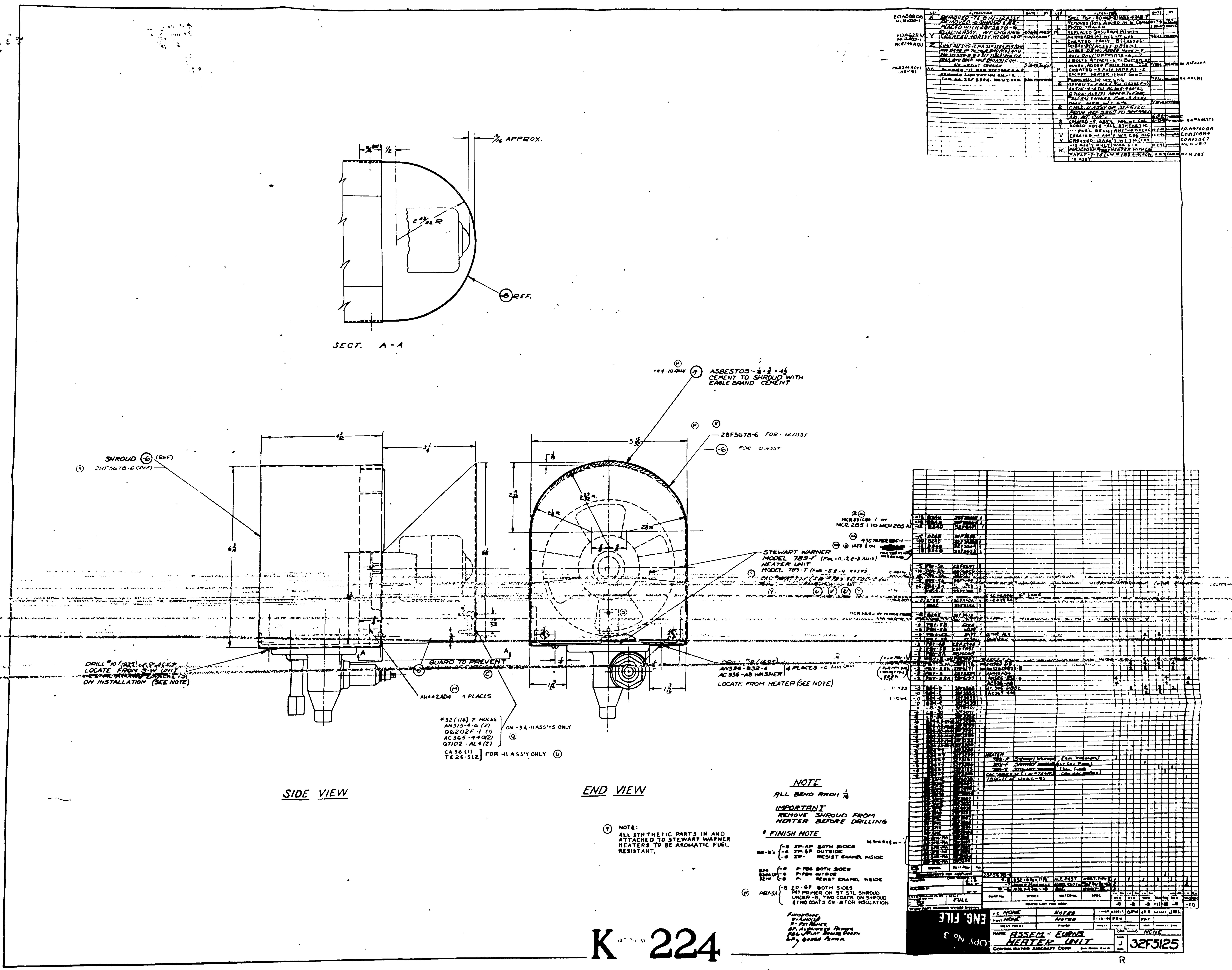
DETAIL D
DETAIL OF INST. OF ELECTRIC HEATED PITOT STATIC TUBE
SECTION F-F
C-C
#46(.081) TAP DRILL
TAP 4-48 N.F.-3 THD
4 HOLES
AN935-4 (4)
DRILL #31 (.120) CLEARANCE HOLE FOR SCREW.
SET SCREWS IN PAINT.
NEOPRENE
CEMENT IN PLACE ON HEAD
ELECTRICAL LEAD
MODEL
REQUIREMENTS PER AIRPLANE
PARTS LIST PER ASSY
ENG. FILE
INSTALLATION
PITOT STATIC TUBES
K 221



BOTTOM VIEW
LATCH CATCH
AN545-9-5
LOCATE FROM LOCK ON 28F4024
SEE DETAIL "D" FOR INSTALL OF CATCH
SPACING OF 28F2220 & 28F2224
28F2179-26 REF
28F2179-26(REF)
9 APPROX.
TO AFT END OF TABLE
LOCATE SCREWS 7 EQUAL SPACES FOR -10 ASSY
DRILL FOR YARD PLOTTER -56
DRILL FOR DOWEL FROM PROTRACTOR BASE
28F051-60
CUTOUT IN LOWER FLANGE ONLY
DETAIL -5
SCALE 12"=1'-0"
DETAIL -2 & -3 OPPOSITE
SCALE 12"=1'-0"
AN 505-D6-18
AC 365-D632
.1405 DIA. 2 HOLES
AN442 D4
SECTION C-C
SCALE 12"=1'-0"
AC 425-D4
28F2220-1
28F2224
28F051-60(REF)
MATERIAL NOTES:
DETAIL -F
(FOR -55 ASS'Y EXCEPT 28-5MN)
DETAIL -6
DETAIL -11
FRONT OF DRAWER
TABLE TOP
FRONT OF TABLE
28F2198-2 (REF)
DETAIL D
SHOWING INSTALL OF 220174-3 ON TABLE
SCALE 12"=1'-0"
DETAIL D
SHOWING INSTALL. OF 220174-2 ON DRAWER
SCALE 12"=1'-0"
28F051-60 (REF)
VIEW B-B
SCALE 12"=1'-0"
AC 505-D6-18
AC 365-D632
.1405 DIA
28F051-60(REF.)
AN 442 D4
SPACING
DETAIL -12 ASS'Y
SCALE 12"=1'-0"
SPOTWELD
SECTION E-E
SCALE 12"=1'-0"
DETAIL -4
SCALE 12"=1'-0"
NOTE:
1. INSULATE 220174-2 & -3 WITH MARINE GLUE & FABRIC.
2. FINISH PARTS -2, -3, -4, -5, -6, -7, & -11 WITH Z-P-1-AL. AFTER ASSY, EXPOSED AREAS ON BOTTOM OF TABLE TO BE PAINTED I.A.L. FINISH -12 ASS'Y Z-P AFTER SPOTWELDING
ENG. FILE
ASSEMBLY - FURNS NAVIGATORS, TABLE TOP & DRAWER
J
28F2198
K 222

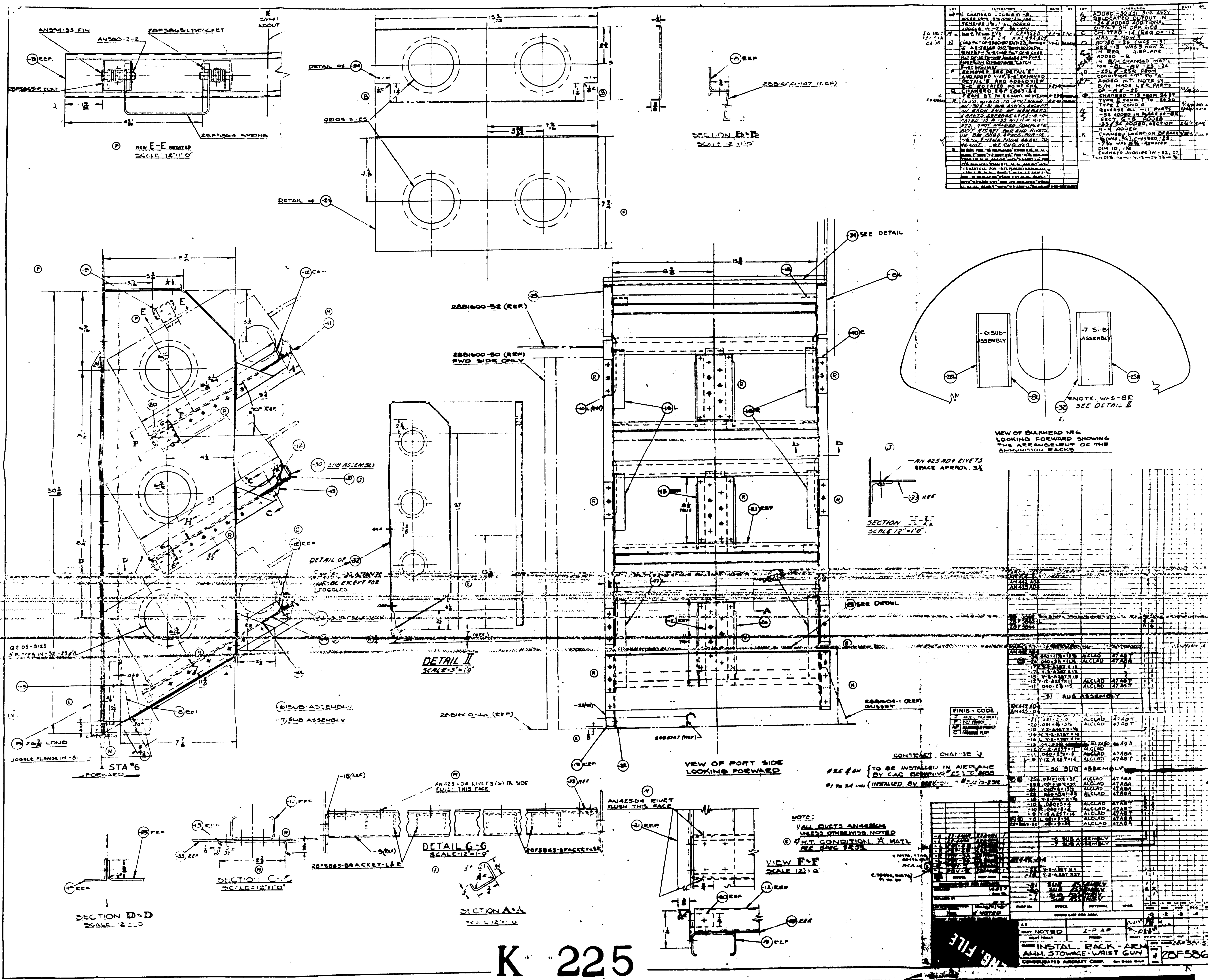


COVER (SEE NOTE) FOR -267 ASSY
BOX (SEE NOTE) FOR -36 SUB ASSY.
BOX FOR -46 SUB ASSY. SAME AS 28F3112-4 EXCEPT AS SHOWN
COVER FOR -266 ASSY. SAME AS 28F3112-3 EXCEPT AS SHOWN
SPOTWELD TO BOX ON APPROX 8 EQUAL SPACES
HINGE HALF
HINGE PIN
-46 BOX ONLY (COVER REMOVED.)
MATERIAL NOTE
NOTES:
CONSTRUCTION TO BE IDENTICAL TO CORRESPONDING PARTS ON SHEET #1 EXCEPT AS SHOWN REFER TO SHEET #1 FOR DETAILS NOT GIVEN ON THIS DWG.
-37 TO MATCH -46 ASSY. FORMING TOOL SAME AS TOOL USED FOR -2 ASSY. EXCEPT FOR ADDED LENGTH
REFER TO 28 FINS FOR FORMING TOOLS
SEE SHT #3 FOR -272 & -274 ASSY'S.
K 223
ENG. FILE
SWITCH PANEL-FURN. BOMBERS
28F3112 SH. #2 OF 3
CONSOLIDATED AIRCRAFT CORP.

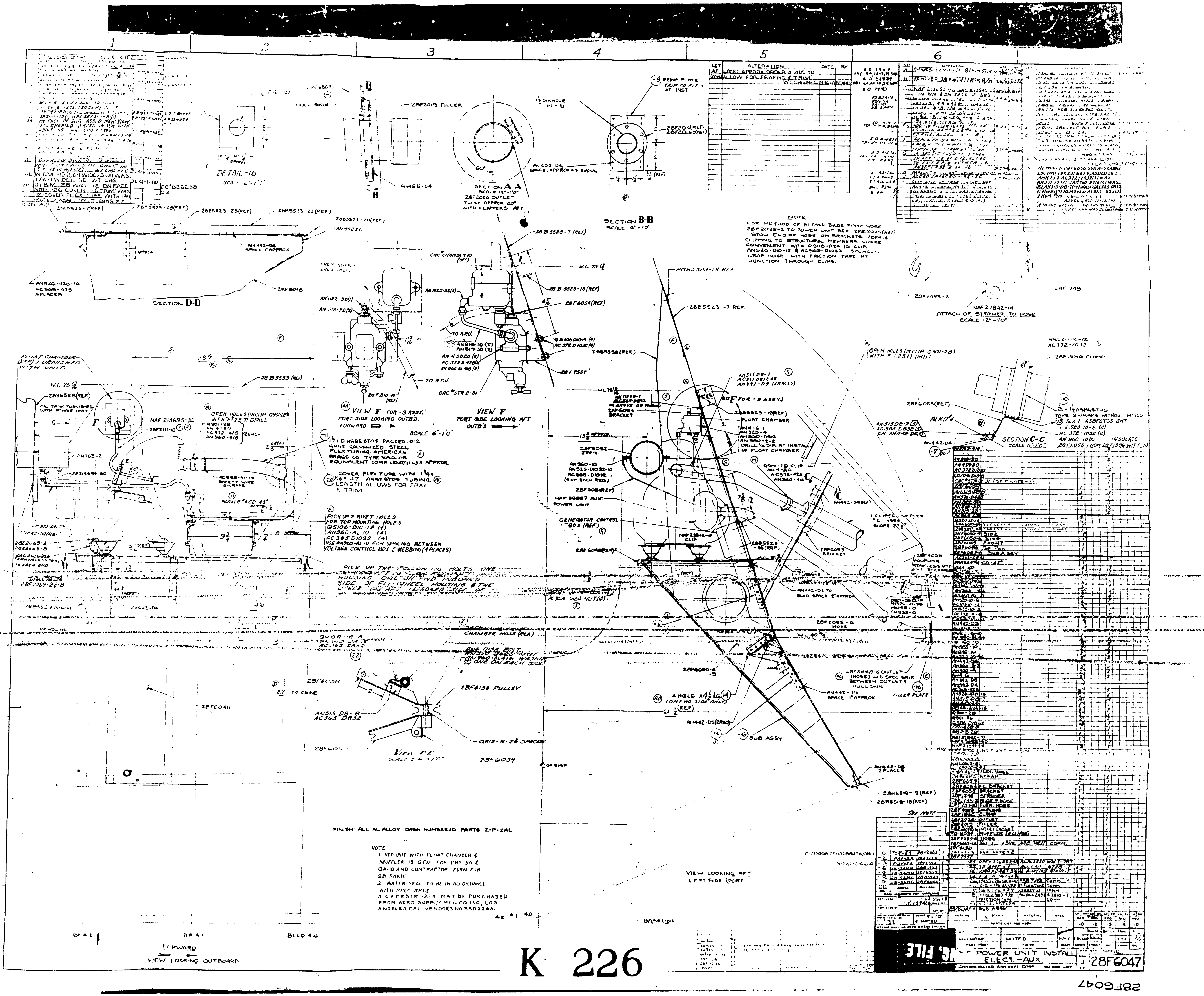


SECT. A-A
REF.
APPROX.
ASBESTOS CEMENT TO SHROUD WITH EAGLE BRAND CEMENT
28F5678-6 FOR -12 ASSY
SHROUD (REF)
28F5678-6 (REF)
STEWART WARNER MODEL 789-F HEATER UNIT
MODEL 789-T
GUARD TO PREVENT
DRILL #10 (.1935) LOCATE FROM S-W UNIT ON INSTALLATION (SEE NOTE)
AN442AD4 4 PLACES
#32 (.116) 2 HOLES
AN515-4-6 (2)
Q6202F-1 (1)
AC365-440 (2)
Q7102-AL4 (2)
ON -3 & -11 ASS'YS ONLY
CA56 (1)
TE25-5 (2) FOR -11 ASS'Y ONLY
AN526-832-6
AC936-A8 WASHER
4 PLACES
LOCATE FROM HEATER (SEE NOTE)
SIDE VIEW
END VIEW
NOTE
ALL BEND RADII 1/16
IMPORTANT
REMOVE SHROUD FROM HEATER BEFORE DRILLING
FINISH NOTE
NOTE: ALL SYNTHETIC PARTS IN AND ATTACHED TO STEWART WARNER HEATERS TO BE AROMATIC FUEL RESISTANT.
ENG. FILE
COPY No. 3
ASSEM - FURNS HEATER UNIT
CONSOLIDATED AIRCRAFT CORP.
32F5125
FULL

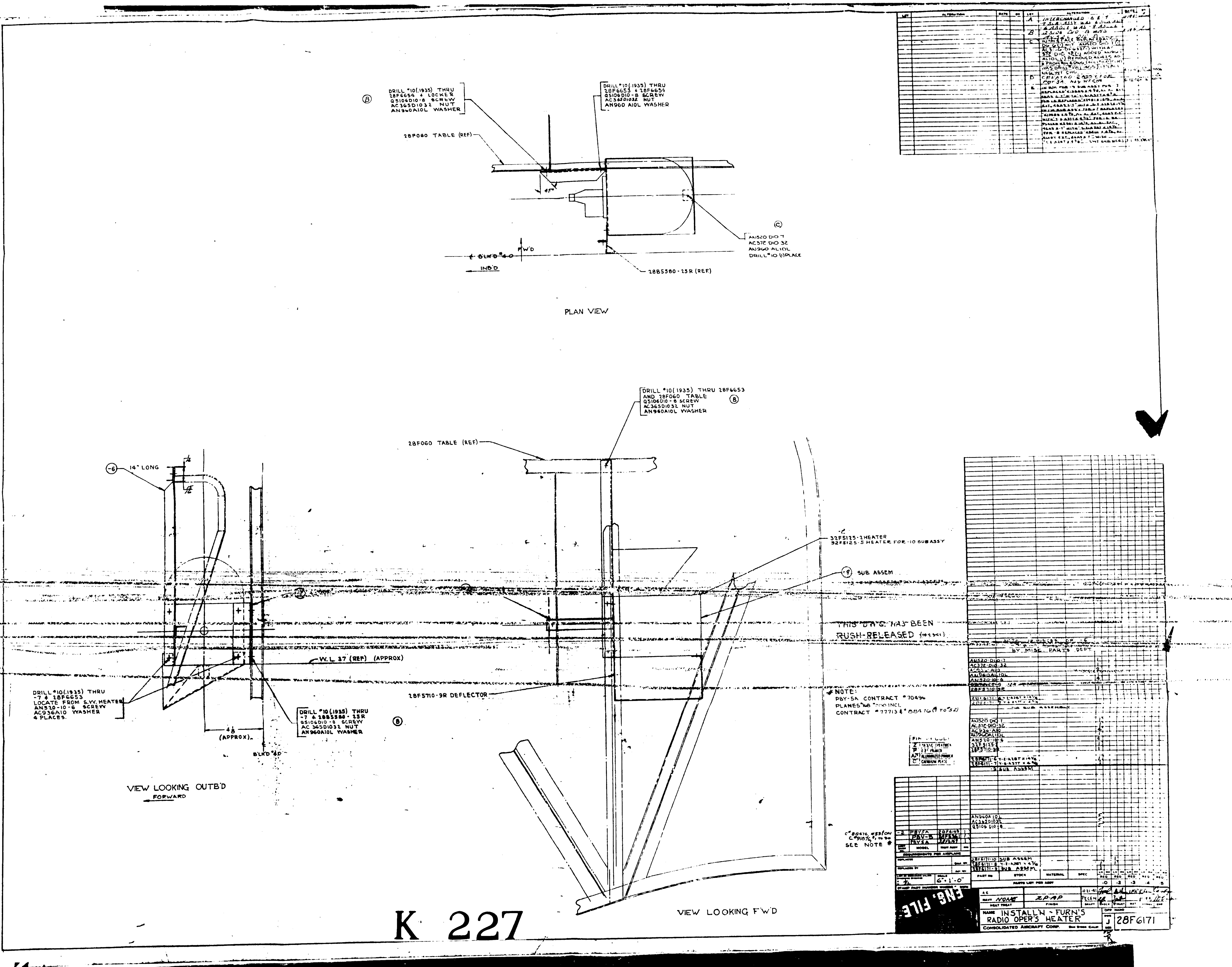
K 224


VIEW E-E ROTATED
SCALE 12"=1'0"
AN594-35 PIN
AN580-2-2
28F5864 SPRING
DETAIL of -24
DETAIL of -23
SECTION B-B
SCALE 12"=1'0"
28B1600-52 (REF)
28B1600-50 (REF)
FWD SIDE ONLY
SEE DETAIL
-6 SUB-ASSEMBLY
-7 SUB-ASSEMBLY
NOTE. WAS -8L
SEE DETAIL II
VIEW OF BULKHEAD Nº6
LOOKING FORWARD SHOWING
THE ARRANGEMENT OF THE
AMMUNITION RACKS
AN 425 AD4 RIVETS
SPACE APPROX. 3½
SECTION H-H
SCALE 12"=1'0"
-30 SUB ASSEMBLY
DETAIL OF -32
DETAIL II
SCALE 3"=1'0"
-6 SUB ASSEMBLY
-7 SUB ASSEMBLY
STA 6
FORWARD
JOGGLE FLANGE IN -81
28B1604-1 (REF)
GUSSET
VIEW OF PORT SIDE
LOOKING FORWARD
CONTRACT CHANGE "J"
DETAIL G-G
SCALE 12"=1'0"
28F5865-BRACKET-L&R
SECTION C-C
SCALE 12"=1'0"
SECTION D-D
SECTION A-A
AN425-D4 RIVET
FLUSH THIS FACE
VIEW F-F
SCALE 12"=1'0"
NOTE:
ALL RIVETS AN442AD4 UNLESS OTHERWISE NOTED
H.T. CONDITION "A" MATL
-31 SUB ASSEMBLY
-50 SUB ASSEMBLY
-5 SUB ASSEMBLY
FINISH CODE
AS NOTED
INSTAL. RACK-ARM
AMM. STOWAGE-WAIST GUN
CONSOLIDATED AIRCRAFT CORP.
28F5863
ENG. FILE

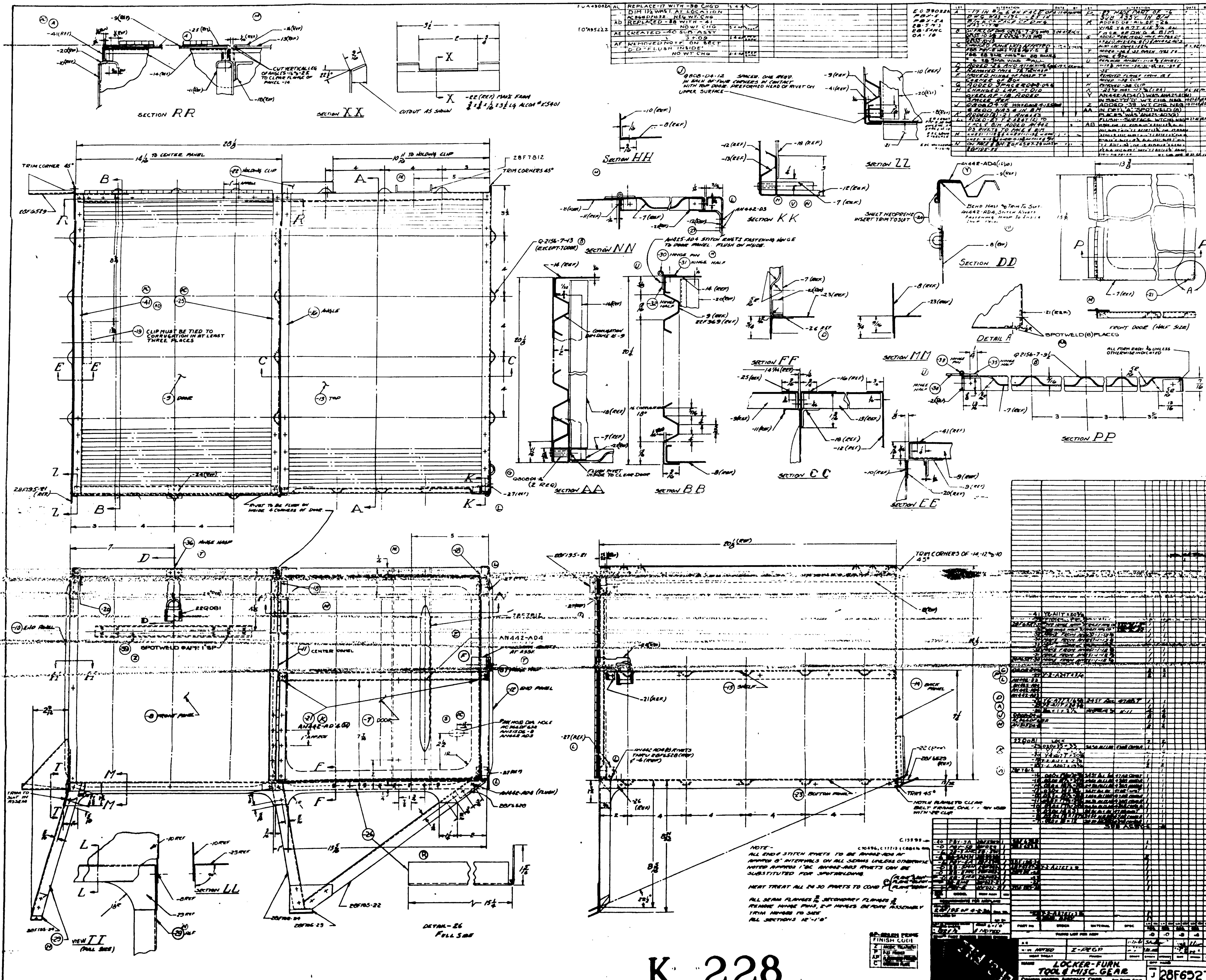
K 225



DETAIL -16
SECTION A-A
SECTION B-B
SECTION D-D
SECTION C-C
28F2019 FILLER
AN455-D4
28B5523-20(REF)
28B5523-22(REF)
28B5523-7(REF)
28F6048
VIEW F FOR -3 ASSY. PORT SIDE LOOKING OUTBD. FORWARD
VIEW F PORT SIDE LOOKING AFT OUTB'D
SCALE 6"=1'0"
TO A.P.U.
FLOAT CHAMBER (REF) FURNISHED WITH UNIT.
OIL TANK FURNISHED WITH POWER UNIT
NAF 213695-3D
OPEN HOLES (IN CLIP Q901-28) WITH "F" (.257) DRILL
COVER FLEX TUBE WITH 1 3/4 x 6" 47 ASBESTOS TUBING. LENGTH ALLOWS FOR FRAY & TRIM
PICK UP 2 RIVET HOLES FOR TOP MOUNTING HOLES
USE AN960-AL10 FOR SPACING BETWEEN VOLTAGE CONTROL BOX & WEBBING (4 PLACES)
FLOAT CHAMBER
GENERATOR CONTROL BOX (REF)
NAF 59887 AUX. POWER UNIT
28F6053 BRACKET
28F4059 COUPLING
28F2095-6 HOSE
28F4136 PULLEY
VIEW E-E
28F6059
ANGLE
SUB ASSY
FILLER PLATE
ATTACH OF STRAINER TO HOSE SCALE 12"=1'0"
NAF 27842-14
28F1248
28F1596 CLAMP
28F6065(REF)
BLKD 4
FOR METHOD OF ATTACH BILGE PUMP HOSE 28F2095-2 TO POWER UNIT SEE 28F2035(REF) STOW END OF HOSE ON BRACKETS 28F4141 CLIPPING TO STRUCTURAL MEMBERS WHERE CONVENIENT WITH Q908-A24-16 CLIP, AN520-D10-12 & AC365-D1032 5 PLACES WRAP HOSE WITH FRICTION TAPE AT JUNCTION THROUGH CLIPS.
FINISH: ALL AL ALLOY DASH NUMBERED PARTS Z-P-2AL
NOTE
1. NEP UNIT WITH FLOAT CHAMBER & MUFFLER IS GFM FOR PHY SA & OA-10 AND CONTRACTOR FURN FOR 28 SAMC.
2. WATER SEAL TO BE IN ACCORDANCE WITH SPEC SR15
3. CAC#STR 2-31 MAY BE PURCHASED FROM AERO SUPPLY MFG CO INC, LOS ANGELES, CAL. VENDORS NO 33D2265.
VIEW LOOKING AFT LEFT SIDE (PORT)
FORWARD
VIEW LOOKING OUTBOARD
BLKD 4.0
BASELINE
POWER UNIT INSTALL ELECT-AUX
CONSOLIDATED AIRCRAFT CORP
28F6047
K 226

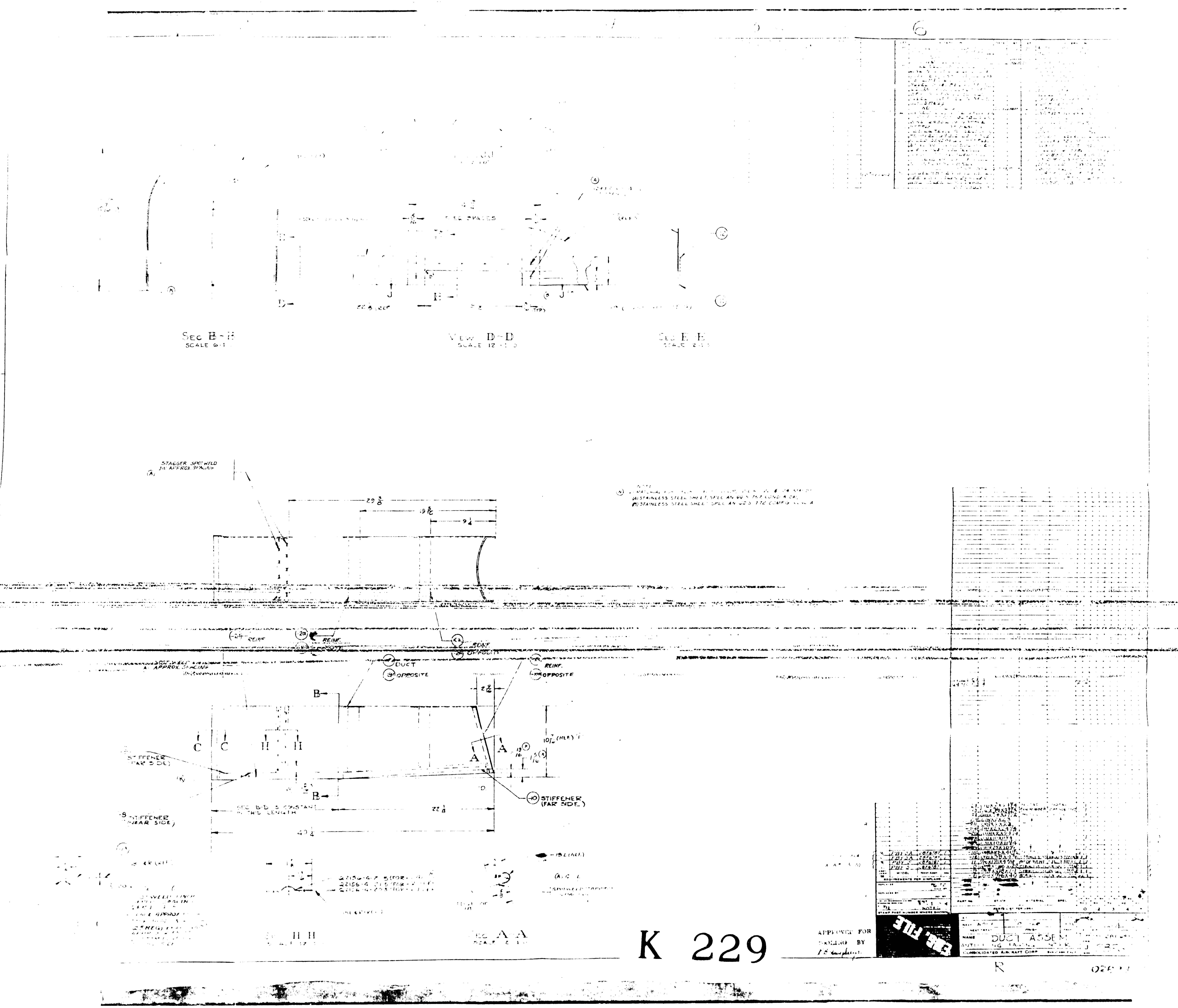


DRILL #10(.1935) THRU 28F6654 & LOCKER QS106D10-8 SCREW AC365D1032 NUT AN960A10L WASHER
DRILL #10(.1935) THRU 28F6653 & 28F6651 QS106D10-8 SCREW AC365D1032 NUT AN960 A10L WASHER
28F060 TABLE (REF)
AN520 D10-7 AC372 D10-32 AN960 A10L DRILL #10 (1)PLACE
28B5580-25R (REF)
FWD
INB'D
PLAN VIEW
DRILL #10(.1935) THRU 28F6653 AND 28F060 TABLE QS106D10-8 SCREW AC365D1032 NUT AN960A10L WASHER
28F060 TABLE (REF)
14" LONG
32F5125-2 HEATER
32F5125-5 HEATER FOR -10 SUB ASSY
SUB ASSEM
THIS DWG HAS BEEN RUSH-RELEASED
W.L. 37 (REF) (APPROX)
28F5710-9R DEFLECTOR
DRILL #10(.1935) THRU -7 & 28F6653 LOCATE FROM S.W. HEATER AN520-10-6 SCREW AC936A10 WASHER 4 PLACES.
DRILL #10(.1935) THRU -7 & 28B5580-25R QS106D10-8 SCREW AC365D1032 NUT AN960A10L WASHER
4 1/8 (APPROX)
NOTE: PBY-5A CONTRACT #70496
VIEW LOOKING OUTB'D
FORWARD
VIEW LOOKING FWD
SEE NOTE
ENG. FILE
INSTALL'N - FURN'S RADIO OPER'S HEATER
CONSOLIDATED AIRCRAFT CORP.
28F6171
K 227

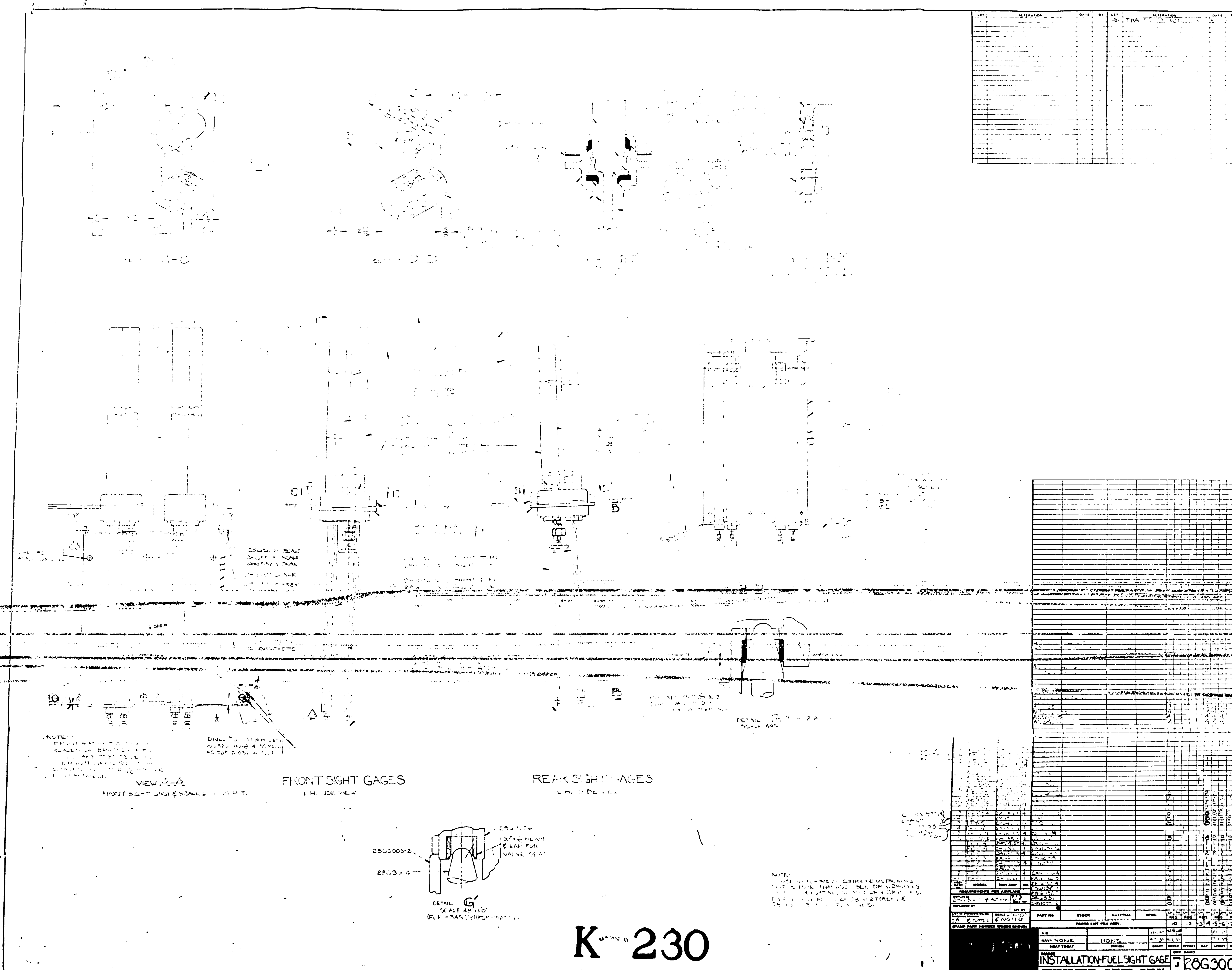


SECTION RR
SECTION XX
SECTION HH
SECTION ZZ
SECTION KK
SECTION DD
SECTION NN
SECTION AA
SECTION BB
SECTION FF
SECTION CC
SECTION MM
SECTION PP
SECTION EE
SECTION LL
DETAIL A
FRONT DOOR (HALF SIZE)
SPOTWELD (8) PLACES
CLIP MUST BE TIED TO CORRUGATION IN AT LEAST THREE PLACES
TRIM CORNERS 45°
CENTER PANEL
END PANEL
FRONT PANEL
BACK PANEL
BOTTOM PANEL
SHELF
DOOR
VIEW TT (FULL SIZE)
DETAIL-26 FULL SIZE
NOTE -
ALL END & STITCH RIVETS TO BE AN442-AD4 AT APPROX 8" INTERVALS ON ALL SEAMS UNLESS OTHERWISE NOTED
TRIM HINGES TO SIZE
LOCKER-FURN. TOOL & MISC. GEAR
CONSOLIDATED AIRCRAFT CORP.
28F6527

K 228



SEC B-B
SCALE 6-1
VIEW D-D
SCALE 12-1
SEC E-E
STAGGER SPOTWELD
REINF.
OPPOSITE
DUCT
STIFFENER (FAR SIDE)
STIFFENER (NEAR SIDE)
SEC A-A
SEC H-H
APPROVED FOR TOOLING BY
DUCT ASSEM
CONSOLIDATED AIRCRAFT CORP
K 229


VIEW A-A
FRONT SIGHT GAGES
DETAIL G
INSTALLATION-FUEL SIGHT GAGE
28G3002
K 230